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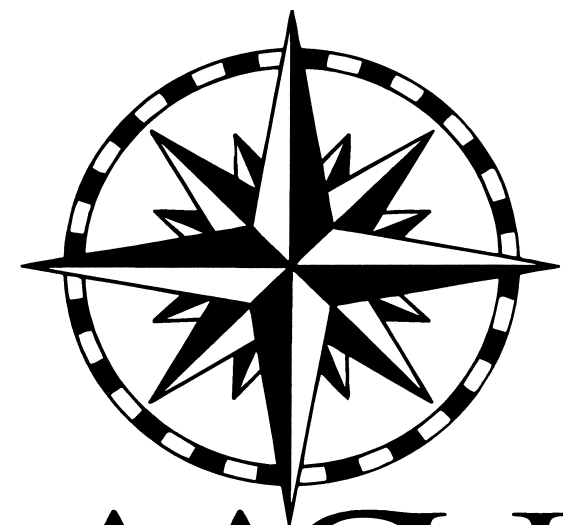
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AASU

ARMSTRONG ATLANTIC
STATE UNIVERSITY

2008-2009 CATALOG

A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA
SAVANNAH, GEORGIA



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President's Message

Welcome to Armstrong Atlantic State University, an institution with a rich array of academic offerings in the arts, sciences, humanities, computing sciences, education, and the health professions. Consider this catalog as a letter of introduction to the challenges and rewards of higher education at Armstrong Atlantic State University. Look carefully at the more than seventy-five high quality undergraduate and graduate degrees offered by the university. As an Armstrong Atlantic student you will encounter innovative professors whose contributions to the university experience — as teachers, advisors, researchers, and friends — are tremendous.

You will find your learning experiences at Armstrong Atlantic empowering. Your experiences will not only prepare you for a fulfilling career, but help you to live an enriched life. At Armstrong Atlantic State University, we take pride in the high standards that we have set for you out of our respect for the high expectations you have set for yourself.

I invite you to explore the excitement of Armstrong Atlantic State University. Join us for a truly exciting learning experience — in our classrooms, laboratories, rehearsal rooms, technology centers, and on our playing courts and fields. We share your enthusiasm for the journey.

With warm regards,

Thomas Z. Jones
President

Degree Programs

Bachelor's and master's degrees, as well as minors, certificates, and associate degrees available at Armstrong Atlantic State University are listed by subject in the chart below. For program listings by college and department, see elsewhere in the catalog Academic Policies and Programs and sections for each college, department, and the graduate school.

SUBJECTS	Minor	Associate	Bachelor's	Bachelor's Leading to Teaching	Master's	Certificate	Courses Only
Adult Education					X	X	
African American Studies	X						
Anthropology							X
Art	X		X	X			
Astronomy							X
Biology	X		X				
Chemistry	X		X				
Communications (degree in English)	X		X				
Communication Sciences and Disorders			X		X		
Computer Science	X		X		X		
Crime, Transnational	X						
Criminal Justice	X		X		X		
Curriculum and Instruction					X		
Cyber Security	X						
Dental Hygiene		X					
Dental Hygiene Education			X				
Economics	X		X			X	
Education - Early Childhood - see Teacher Education	X			X	X		
Education - Middle Grades - see Teacher Education	X			X	X		
Education - Secondary - see content areas						X	
Educational Technology						X	
Engineering							X
Engineering Studies	X						
English	X		X				
English - Communications	X		X				
European Union Studies	X					X	
Film	X						
Financial Economics						X	
Fine Arts - Visual Art			X				
Forensic Science						X	
French	X						
Gender and Women's Studies	X		X			X	
Geography							X
Geology							X
German	X						
Gerontology						X	
Health & Physical Education	X			X		X	
Health Science	X		X				
Health Services Administration					X		
Heritage Tourism						X	
History	X		X		X		
International Studies	X						
Information Technology	X		X			X	
Information Technology - Online			X				
Journalism							X
Latin American Studies	X					X	
Law and Society			X				

SUBJECTS	Minor	Associate	Bachelor's	Bachelor's Leading to Teaching	Master's	Certificate	Courses Only
Law Enforcement - Basic	X					X	
Leadership Studies	X						
Legal Studies	X						
Liberal Studies		X	X		X		
Library Media	X						
Linguistics	X						
Mathematical Sciences	X		X				
Mathematics Education						X	
Medical Technology			X			X	
Mental Health	X						
Meteorology							X
Military Science	X						
Music	X		X	X			
Naval Science	X						
Nursing			X		X	X	
Oceanography							X
Organizational Psychology	X						
Philosophy	X						
Physical Education - see Health and Physical Education							
Physical Science	X						
Physical Therapy							X*
Physics, Applied	X		X				
Political Science	X		X				
Post Baccalaureate Pre-Medical Studies						X	
Psychology	X		X				
Public Health					X		
Public History	X						
Radiologic Sciences			X			X	
Rehabilitation Sciences			X				
Religious Studies	X						
Respiratory Therapy			X				
Science Education - Broadfield						X	
Sociology	X						
Spanish	X		X	X			
Special Education - Behavior Disorders					X	X	
Special Education - Cross Categorical				X	X	X	
Special Education - Learning Disabilities					X	X	
Sports Medicine					X		
Statistics	X						
Strength and Conditioning						X	
Teacher Education				X	X	X	
Theater	X		X				
Visual Arts (degree in Fine Arts)			X				
Writing	X						

*Doctor of Physical Therapy degree (DPT) in collaboration with Medical College of Georgia.

How to Use This Catalog

A university catalog (sometimes called a record, bulletin or calendar) is an official publication providing a comprehensive, detailed listing of programs, services, rules, requirements, courses, administrators, and faculty for one academic year. A catalog is an authoritative document, yet may not be taken as a contract between the university and a student. As a general rule, the catalog for the academic year during which you are first enrolled will determine the requirements for your program completion and graduation. However, the university reserves the right to change any provision listed in this catalog, including but not limited to academic requirements for graduation, without actual notice to individual students. The university also reserves the right to modify curriculum and alter or eliminate courses, certificates, and degree programs without notice and, when reasonable under the circumstances, to change instructor, date, time and location, or cancel outright, courses already scheduled.

Students sometimes use the university catalog solely as a reference - a much-needed guide to degree requirements, courses, or deadlines for financial aid and scholarship applications. The university's other publications will provide even more detailed information on when and where to register, and when and where specific courses are being taught. But college catalogs - and the Armstrong Atlantic State University Catalog is no exception - may have other uses as well.

The many hours you spend earning a degree at Armstrong Atlantic make the university your academic home town. You will want to use the catalog as a way to get to know your community. Browsing through this catalog may yield information as varied as the following:

- Evening and weekend classes offer flexible scheduling.
- Pre-professional programs in dentistry, medicine, pharmacy, and veterinary medicine are available.
- Information about the university and its programs - and even class registration - is available on line at www.armstrong.edu.
- The graduate school offers advanced degrees in many fields, and has its own catalog.
- Off-campus classes are available in Hinesville and Brunswick, and some degrees may be earned while attending classes on those campuses.
- Students may study abroad while earning academic credit at Armstrong Atlantic.
- Non-credit, continuing education classes in a host of subjects are offered to the general public every term.
- Armstrong Atlantic engineering students can complete degrees from Georgia Tech in civil, electrical, environmental, mechanical and computer engineering without leaving Savannah.
- Services for students range from academic advisement and placement testing to computing and writing assistance.
- Library holdings number over 800,000 items.
- More than seventy student organizations meet professional, academic, social, religious, and special interests.

The catalog is organized into the following sections: an overview of the university and its programs; admissions, financial, student services, and academic information; the university's colleges, departments and program requirements; course descriptions; special programs such as learning support, study abroad and ROTC; and last, faculty and administration listings. A table of contents and index are available to help you locate information quickly, and the glossary provides some useful definitions of terms and acronyms. The current academic calendar is located on the inside front cover to help you plan your year, and "Where to Write or Call" on the inside back cover may help you find the fastest way to get your questions answered accurately.

The catalog can be an invaluable tool in planning your time at Armstrong Atlantic State University. Keep it handy and use it often.

The University and the Community

Armstrong Atlantic State University was founded in 1935 to enhance higher educational opportunities in the community. The foundation of the institution, then as now, was a firm commitment to the ideals of a liberal education. Throughout its history, Armstrong Atlantic has shared its creative, scholarly, technical, and leadership expertise with individuals and organizations throughout southeast Georgia, and has been designated as a regional health professions education center. AASU offers more than 75 undergraduate and graduate degrees, certificates, and pre-professional programs in the areas of arts, sciences, humanities, social sciences, education, health professions, computer science, and information technology. The university today serves a diverse student body of nearly 7,000. Forty-five percent are from the Savannah-Chatham County area. Others come from throughout Georgia, the nation, and more than 60 countries.

Mission Statement

As a unit of the University System of Georgia, Armstrong Atlantic State University is committed to the following:

- Educating students in the liberal arts tradition through quality programs in the arts and sciences, teacher education, health professions, and computing and technology;
- Providing students with intellectual challenges, professional experiences, and extracurricular activities that prepare them for citizenship, leadership, career success, and a lifelong passion for learning; and
- Advancing teaching, scholarship, creative endeavors, and service to the community by supporting the collaborative initiatives of students, faculty and staff.

Approved by the Board of Regents of the University System of Georgia – April, 2005



Accreditation

Armstrong Atlantic State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone number 404-679-4501) to award associate, baccalaureate and master's degrees.

Armstrong Atlantic State University programs have earned the following special purpose accreditations:

Chemistry - by the American Chemical Society Committee on Professional Training, subject to annual review.

Computer Science - by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology for the period 2005-2011.

Dental Hygiene - by the Commission on Dental Accreditation of the American Dental Association for the period 2001-2008.

Health Services Administration - by the Commission of Accreditation on Healthcare Management Education for the period 2005-2008.

Medical Technology - by the National Accrediting Agency for Clinical Laboratory Sciences for the period 2004-2011.

Music - by the National Association of Schools of Music for the period 2005-2015.

Nursing (Baccalaureate and Master's degrees) - by the Commission on Collegiate Nursing Education for the period 2006-2016.

Physical Therapy - by the Commission on Accreditation in Physical Therapy Education for the period 2003-2012.

Public Health - by the Council on Education for Public Health for the period 2007-2013.

Radiologic Sciences - tracks in radiography and radiation therapy - by the Joint Review Committee on Education in Radiologic Technology for the period 2001-2008; track in nuclear medicine - by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology for the period 2006-2011.

Respiratory Therapy - by the Committee on Accreditation of Allied Health Educational Programs for the period 1997-2008.

Teacher Education Programs - by the National Council for the Accreditation of Teacher Education and the Georgia Professional Standards Commission for the period 2002-2009.

Degree Programs

Degree programs are listed by subject at the front of this catalog; by college and department at the end of the section on Academic Policies and Programs; and at the beginning of the section for each college and department. Minor concentrations and certificate programs are noted at the front, and requirements for all degrees described in detail in the departmental listings.

Evening Programs and Weekend College

To accommodate students who are employed during the day, all core curriculum courses and many upper-division courses are offered in the late afternoon and evening. At present, the following degree programs are available to students who attend classes exclusively in the evening: associate of arts; economics, Education, English (communications), English, liberal studies, history, information technology, nursing (RNO only), and psychology.

Because evening courses are offered on a rotational basis, students may take longer to complete degree requirements by attending evening classes exclusively than by attending day classes or a combination of day, evening, and weekend classes.

Weekend College complements the evening programs of the university. Friday evening and Saturday classes include core curriculum courses in art, composition, history, physical education, science, political science, psychology, sociology, and speech communications. Courses are sequenced so that the complete core curriculum can be completed in two years taking courses exclusively in the Weekend College. Weekend College serves the growing number of students who need a non-traditional schedule to allow them to make progress toward graduation. The College of

Liberal Arts oversees the development and promotion of Weekend College and serves as ombuds person for the evening program.

Armstrong Atlantic State-Savannah State Cross Enrollment Program

Students enrolled in *at least 6 semester hours* at Savannah State University or at Armstrong Atlantic State University have the privilege of taking courses at the other university without paying an additional fee. However, more than one half of the semester hours must be taken at the home university.

Pre-Professional Programs

Armstrong Atlantic State University offers courses appropriate for the first two years of baccalaureate programs - such as business, engineering, forestry, and industrial management – not offered among its degree programs, and offers the pre-professional study appropriate for dentistry, law, medicine, pharmacy, veterinary medicine, and other professional fields.

Regents Engineering Transfer Program

The Regents Engineering Transfer Program (RETP) is a cooperative program between Armstrong Atlantic and Georgia Institute of Technology, allowing qualified students to attend Armstrong Atlantic for the first two years of engineering studies, then transfer to Georgia Tech to complete their bachelor of science in engineering degree. RETP students transferring to Georgia Tech compete for admission to engineering programs on a equal basis with Georgia Tech students at the junior academic level. To be admitted as RETP students, applicants must meet academic requirements set for the program, and be U.S. citizens with Georgia residency. Specific information on requirements for admission is available in the admissions section of this catalog or from the engineering studies program coordinator in the College of Science and Technology.

Georgia Tech Regional Engineering Program

The Georgia Tech Regional Engineering Program (GTREP) is a partially “virtual” university that builds on the strengths of the RETP. Through GTREP, students can complete Georgia Tech degrees in civil engineering, computer engineering, electrical engineering, and mechanical engineering without leaving the Savannah area. Freshman and sophomore classes are taught by Armstrong Atlantic faculty with the final two years taught by resident Georgia Tech faculty and innovative distance learning methods. Academic requirements for admission into GTREP are the same as those for RETP. Unlike RETP, GTREP is open to out-of-state students with U.S. citizenship or permanent resident status.

Dual-Degree Programs

Armstrong Atlantic has dual-degree programs in engineering with the Georgia Institute of Technology, Auburn University, Clemson University, Mississippi State University, and the University of Florida. Upon completion of the first three years of academic work at Armstrong Atlantic, students may enroll for two subsequent years at one of the participating schools. Upon completing the requirements of the two cooperating schools, students receive a baccalaureate degree from Armstrong Atlantic and a baccalaureate degree in the chosen field of engineering from the second school. Contact the engineering studies coordinator in the College of Science and Technology for additional information.

A dual-degree program in forestry and environmental management with Duke University is available. Students complete three years of academic work at Armstrong Atlantic, then enroll for two subsequent years at Duke. Students who successfully complete the program receive a bachelor of science degree in biology from Armstrong Atlantic State University and a master of science degree

in either forestry or environmental management from Duke University. The head of the Department of Biology should be contacted for additional information.

Cooperative Education Program

In the cooperative education program, students typically alternate semesters between college and work. This program offers students valuable practical experience as well as financial assistance in the form of compensation from the firms employing them. Cooperative opportunities are available to students in computer science, chemistry, and engineering, but are not limited to these majors. Cooperative students must register for the cooperative education program for semesters in which they work. This course carries no credit and there is no charge for registration. Students interested in applying for admission to the cooperative education program should contact the head of their major department and the director of career services.

Off-Campus and Distance Learning

The university offers selected courses at various off-campus sites, including Brunswick Center (Brunswick and Kingsland), Liberty Center (Hinesville), East Georgia College and the Medical College of Georgia. Although most of these courses are taught by university faculty at the off-campus sites, some may be delivered by means of interactive video conferencing originating from the main campus.

Armstrong Atlantic is an active member of the Georgia Statewide Academic and Medical System (GSAMS). The university oversees the operations of eight interactive distance-learning classrooms, four of them on campus (Gamble 113, Ashmore 136 and 228, and University Hall 114) and others at the Brunswick Center, Liberty Center, and Savannah State University. In addition, the university is developing internet resources to provide a new medium for learning as well as to supplement more traditional forms of research and instruction.

Brunswick Center

Approved by the Board of Regents in 1986 as a cooperative effort among Armstrong Atlantic State University, Coastal Georgia Community College, and Georgia Southern University, the Brunswick Center serves as a consortium dedicated to expanded higher education offerings in and around the Brunswick, Georgia area. The center is located on the campus of the Coastal Georgia Community College. Armstrong Atlantic offers degree programs for a bachelor of liberal studies, bachelor of science in education in early childhood education and middle grades education, bachelor of science in criminal justice, bachelor of arts in history, bachelor of science in nursing, and associate of science in dental hygiene through this off-campus site. Armstrong Atlantic also offers the master of science degree in nursing at the Brunswick Center and a master of education degree in early childhood education and middle grades education in Camden County.

All three participating institutions teach courses which apply toward the degrees, and credit earned from any of these colleges through the Brunswick Center is accepted as resident credit by Armstrong Atlantic State University.

Liberty Center

As a result of collaborative efforts among the Board of Regents, the U.S. Army, and many business, civic and education leaders in the area, the Armstrong Atlantic State University-Liberty Center campus was established in Hinesville, Georgia in 1998. To accommodate varied work schedules, the Center offers courses in morning, afternoon, and evening hours to students in the Liberty County area who would like to pursue higher education locally. In conjunction with Waycross College, the Center offers learning support, core curriculum, and other courses leading to associate's, bachelor's, and master's degrees.

Public Service Center

The Armstrong Atlantic State University Public Service Center assists public organizations in identifying and resolving complex urban and regional issues. The center provides faculty and staff training and expertise to help public and private sector agencies design more effective, efficient means to deliver services. City and county governments; nonprofit human service and cultural groups; boards of education; colleges and universities; and state, regional, and local agencies all may benefit from the center's programs and services.

Services offered have grown to include the following specialties:

- applied research and analysis of issues and problems;
- program evaluation and survey research;
- analysis and consultation on policies, procedures, and operations;
- in-service training and personnel assessment;
- program development and planning to improve delivery of services;
- information collection and dissemination;
- grant and proposal writing.

Elderhostel

Elderhostel is an educational adventure for older adults. Participants from all over the world travel to college campuses, recreational sites, and conference centers in over 47 countries for academic and cultural enrichment. Participants are on site for a week, usually participating in three courses set up by the program coordinator. These courses are strictly informational, require no testing or grading, and are often supplemented by tours and extracurricular activities.

Armstrong Atlantic State University has been providing Elderhostel since 1986 and now offers more than 50 weeks of programming per year at four sites: mid-town, historic Savannah, Tybee Island, and Beaufort, S.C. Armstrong Atlantic's program is open to applicants from the community, nation, and abroad. Individuals 55 years of age and older are eligible. The program brings in more than 2600 participants annually, contributing to Georgia's status as the second most popular state in the program.

Location

Armstrong Atlantic State University (AASU) is located on the coast in the historic city of Savannah, Georgia, just minutes from the Atlantic beaches. The university's 268-acre campus is a mix of stately traditional and modern buildings and is surrounded by a beautiful arboretum. Students, faculty, and staff find much to enjoy about attending Armstrong Atlantic and living in the cosmopolitan city of Savannah, one of the most beautiful cities in the United States.

The university offers a wide variety of extracurricular activities to the diverse student population that comes from throughout Georgia, the nation, and more than 70 countries. These activities include student publications, campus recreation, and more than 70 student clubs, professional organizations, academic honor societies, and Greek organizations. Cultural opportunities include student dramatic, choral, and instrumental groups, and exhibits, and performances by classical and modern artists. With more than 200 events open to the public each year, Armstrong Atlantic is a cultural center for the Savannah metropolitan area.

Leadership opportunities are plentiful at AASU. Some of these opportunities include the Honors Program, the Nick Mamalakis Emerging Leader Program, the Staff Advisory Council, the Student Government Association, and the Graduate Coordinating Council.

AASU's nationally ranked athletic program is affiliated with the NCAA Division II and the Peach Belt Conference. Men's athletic teams include basketball, baseball, tennis, and golf. Women's teams include basketball, softball, volleyball, tennis, soccer, and golf.

Georgia's founding city, Savannah has all the cultural variety of a metropolitan city with the added advantage of the ocean at its back door. A temperate climate encourages year-round outdoor recreation. You can swim and sun at the beach, water-ski, sail, cruise on a boat, fish off barrier islands, hike, visit historic sites, play golf and tennis, dine at an outdoor café, attend city festivals and special

celebrations on the waterfront and in the parks, and much more. Dance and theater groups, and popular entertainers regularly perform at larger downtown venues.

Office of University Relations

The Office of University Relations provides a proactive communications program that informs and educates a wide array of audiences about Armstrong Atlantic's role as a premier university and community leader. The office promotes the university, its students, faculty, staff, alumni, and activities through the creation of numerous external promotional materials and through interaction with representatives of the local, regional, state, and national media. The staff produces news releases, coordinates interviews between the media and faculty, staff, and students, and compiles requested information for the media.

The staff provides publication support to all units of the university, from graphic design and photography to writing and editing. In addition, the office also provides photography services for the university for special events and for use in promotional materials and the website. The Office of University Relations is involved in marketing efforts, advertising, developing stories for publications, producing internal and external newsletters, additional promotional activities, and special event assistance.

The staff furnishes information and photography for the AASU website, and business cards and stationery for university personnel. The office also serves as the liaison between the university and the news and publication office of the University System of Georgia.

Office of External Affairs

The Office of External Affairs consists of the offices of university advancement, professional and continuing education, economic and community development, and regional education services. External Affairs also provides administrative assistance to the Armstrong Atlantic State University Foundation and AASU Educational Properties, Inc.

Leadership Development. Leadership Development links the university's leadership focus through its core and select missions in service to the community. Utilizing the significant educational resources of the university, leadership development initiates improvements to the quality of leadership in the public, private and non-profit sectors of society with an emphasis on community-based leadership.

University Advancement. University Advancement includes the Office of Development and the Office of Alumni Affairs. The development office of the AASU Office of External Affairs, in collaboration with the AASU Foundation, develops and initiates fund raising activities and programs to prospective donors who share the mission and goals of Armstrong Atlantic State University. Donations provide the university with support unavailable through state appropriations allowing the faculty and administration to respond to opportunities for growth and innovation. Gifts are also used to assist students through scholarships and other financial assistance, support outstanding teachers through faculty development awards and professorships, sponsor symposia and guest lecturers, enhance library holdings and facilities, and assist in other special projects and programs. Private support helps sustain Armstrong Atlantic's tradition of academic excellence.

The AASU Foundation, Inc. is a direct support organization and the legal entity for receiving gifts to the university. Contributors to the foundation, a 501C(3) tax-exempt charitable organization, are entitled to all tax benefits authorized by law.

The office of alumni affairs serves as a liaison to the Armstrong Atlantic Alumni Association, Armstrong Atlantic graduates, former students, and friends. The office maintains current alumni records, processes alumni membership, and circulates university and alumni information. Membership in the association is open to all graduates and former students.

Organized in 1937, the AASU Alumni Association is comprised of graduates and former students of Armstrong Junior College, Armstrong State College, and Armstrong Atlantic State University. The association promotes interaction among alumni, students, faculty, staff, and friends of the university in order to strengthen the ties between the institution and its supporters.

Each year the alumni association recognizes individuals, who have made outstanding contributions to the university and the association, by presenting the Distinguished Alumni Award, the Outstanding Alumni Service Award, the Distinguished Citizen's Award and the Outstanding Faculty Award.

Professional and Continuing Education. Armstrong Atlantic's Department of Professional and Continuing Education provides opportunities for life-long learning for Savannah and the coastal region by offering non-credit (non-degree) courses, seminars, and certificate programs. A variety of programs have been designed to improve professional skills, enhance leisure activities, and foster personal enrichment. Utilizing the new Armstrong Center for Continuing Education, the office also coordinates conferences, workshops, and customized training for professional associations, business, and industry. Instructors are university faculty or other qualified experts from our region.

Participants in designated continuing education courses may earn continuing education units (CEUs), which are a nationally recognized measure of participation in professional education, training, and development programs. Permanent CEU records are maintained by the continuing education office.

For more information about course offerings and schedules, contact the office.

The Office of Economic and Community Development. The Office of Economic and Community Development is a department of the Office of External Affairs that helps to create new and broader economic development opportunities for the people living throughout the coastal areas of Georgia. Established in 2000, the office is charged with marshalling the university's resources to promote quality economic and community development that contributes to job generation and income growth in Georgia.

The university's strategic plan describes the institution's commitment to community and economic development. AASU serves as a hub of knowledge that extends cultural, intellectual and economic benefits to the state and region. The university plays a key role in the development of productive citizens and future professionals. The Office of Economic and Community Development demonstrates this commitment by identifying, coordinating and directing the assets and strengths of the university to further community and economic development. AASU employees provide knowledge and professional assistance to Georgia communities in identifying and addressing complex urban and regional issues.

Public-private partnerships serve to leverage university resources in support of business and workforce development. By matching the expertise and resources of the university with the needs of private business, government and community based economic development organizations AASU provides strategic planning, leadership development, education and training, community analysis and research and other technical support.

Center for Justice Administration. The Center for Justice Administration, a joint program of External Affairs and the Department of Criminal Justice, Social and Political Science, offers educational and training programs to assist in-service criminal justice professionals pursue the associate of applied science and bachelor and master of science degree programs in criminal justice. Each course consists of a 40-hour week of class that meets Monday through Friday, 8:00am to 5:00pm. Upon successful completion of each course, students will receive three semester hours of college credit.

The Center also offers the Basic Law Enforcement Certificate Program to assist students with Georgia POST certification. This ten-week program allows graduates to become candidates for law enforcement certification. The HOPE Grant is available to qualifying applicants.

Admissions

Armstrong Atlantic State University welcomes students who wish to pursue a college-level program of study. The Office of Admissions works hard to make the admissions process an easy one. Service to students is our priority, and academic achievement is expected, nurtured, and rewarded. If you have any questions about admissions policies, please call us at 344-2503 or 1-800-633-2349. We look forward to hearing from you and wish you well in your university studies.

Admission Requirements

All New Applicants. All applicants must submit the following:

- undergraduate admissions application (www.admissions.armstrong.edu)
- a \$25 nonrefundable application fee
- certificate of immunization (All new applicants to the university must submit a University System of Georgia Certificate of Immunization form verifying immunity against measles, mumps, rubella, chicken-pox, and tetanus prior to registering for classes.)

Freshman Applicants. Applicants applying for freshman admission must submit the following additional documentation:

- official high school transcript
- official SAT I or ACT score report

The word “official” indicates that documents must be received directly from the forwarding institutions.

Transfer Applicants. Transfer applicants must also submit official transcripts from each institution attended and have a transfer grade point average of 2.0.

Transients. Students enrolled in other colleges or universities may apply to Armstrong Atlantic for admission as transient students. Application for transient admission must be accompanied by a letter of good standing from the dean or registrar of the home institution. The letter of good standing must indicate permission to take specific courses at Armstrong Atlantic State University. Transient students are admitted for one semester. If they wish to remain at Armstrong Atlantic longer than one semester they must submit a new letter of good standing, or must meet all admission requirements for transfer students. Transient students can enroll for no more than two consecutive terms.

Information on nontraditional, early, international, joint enrollment, outstanding student program, and non-degree student admissions, as well as readmission, is listed under Special Admission Categories.

Information on SAT or ACT tests administration may be obtained from:

The College Board SAT Program at www.collegeboard.com

The American College Testing Program at www.act.com

The CEEB code assigned to Armstrong Atlantic State University is 5012. Exceptions to the SAT and ACT requirements are discussed in the Special Admission Categories section.

Regular Admission

Applicants must meet all of the following minimum admission criteria to be eligible for regular admission to the university. Participation in community service, extra-curricular activities, and honors/awards received will be considered.

- SAT critical reading score of 460 or ACT English score of 19
- SAT math score of 430 or ACT math score of 18
- Freshman Index* of 1940

In addition to meeting the above admissions criteria, applicants graduating, or who would have graduated, from high school within the past five years must meet the requirements of the college preparatory curriculum (CPC) of the Board of Regents.

**SAT Freshman Index = Combined SAT I scores + (High School Grade Point Average x 500).*

ACT Freshman Index = (High School GPA x 500) + (ACT composite x 42) + 88.

The high school grade point average is calculated only on CPC course work required for admission.

College Preparatory Curriculum (CPC) Requirements. A total of sixteen CPC units in the areas below are required for regular admission to Armstrong Atlantic State University.

CPC Area (Units)	Instructional Emphasis/Courses
English (4)	<ul style="list-style-type: none"> • grammar and usage • literature (American and world) • advanced composition skills
Mathematics (4)	<ul style="list-style-type: none"> • two courses in algebra, one in geometry, and one advanced mathematics course
Science (3)	<ul style="list-style-type: none"> • physical science • two laboratory courses from biology, chemistry, or physics
Social Science (3)	<ul style="list-style-type: none"> • acceptable social science courses
Foreign Language (2)	<ul style="list-style-type: none"> • two courses in one language emphasizing speaking, listening, reading, and writing

Applicants who graduate from non-accredited or unapproved high schools will be required to validate CPC requirements by passing SAT II subject tests. Applicants who pass the required SAT II subject tests will be eligible for admission to the university if all other freshman admission requirements are met. The SAT II subject tests are administered through the College Board.

SAT II Subject Test	Required Score
English Writing	520
English Literature	530
Math IC or Math IIC	500/570
American History and Social Studies	560
World History	540
Biology	520
One of the following:	
Chemistry	540
Physics	590

In addition, an applicant must demonstrate foreign language proficiency at the level of two years of high school study.

Home school applicants who meet all other freshmen admission requirements have the option of validating CPC requirements by passing SAT II subject tests as indicated above or enrolling in specified freshmen level courses earning a grade of C or higher.

Exceptions to the CPC Requirement. Non-traditional students and students pursuing the basic law enforcement certificate are exempt from CPC requirements.

Limited Admission

The University System permits Armstrong to admit a limited number of applicants who do not meet regular admission standards. An applicant must meet all of the following criteria to be eligible for limited admission. Participation in community service, extra-curricular activities, and honors/awards received will be considered.

- SAT critical reading score of 430 or ACT English score of 17
- SAT math score of 400 or ACT math score of 17
- Freshman Index * of 1790

**SAT Freshman Index = Combined SAT I scores + (High School Grade Point Average x 500).*

ACT Freshman Index = (High School GPA x 500) + (ACT composite x 42) + 88.

The high school grade point average is calculated only on CPC course work required for admission.

In addition to meeting the above admissions criteria, applicants who graduated, or who would have graduated, from high school within the past five years must meet the requirements of the college preparatory curriculum (CPC) of the Board of Regents.

College Preparatory Curriculum (CPC) Requirements. A total of sixteen CPC units in the areas below are required for limited admission to Armstrong Atlantic State University.

CPC Area (Units)	Instructional Emphasis/ Courses
English (4)	<ul style="list-style-type: none"> • grammar and usage • literature (American and world) • advanced composition skills
Mathematics (4)	<ul style="list-style-type: none"> • two courses in algebra, one in geometry, and one advanced mathematics course
Science (3)	<ul style="list-style-type: none"> • physical science • two laboratory courses from biology, chemistry, or physics
Social Science (3)	<ul style="list-style-type: none"> • acceptable social science courses
Foreign Language (2)	<ul style="list-style-type: none"> • two courses in one language emphasizing speaking, listening, reading, and writing

Special Admission Categories

Non-Traditional Admission. Non-traditional applicants are defined as students who:

- have been out of high school at least five years or whose high school class graduated at least five years ago;
- hold a high school diploma from an accredited or approved high school as specified or have satisfactorily completed the GED;
- have earned fewer than 30 transferable semester hours (45 quarter hours);
- have not attended college within the past five years (or are in good standing at the last college attended, if admitted to that college as non-traditional students).

Applicants admitted as non-traditional students are not required to take the SAT or ACT test, or to fulfill high school CPC requirements. However, these applicants will be required to take the COMPASS Placement Exam and enroll in learning support courses, if required.

Early Admission. Armstrong Atlantic State University offers an early admission program for students who have completed their junior year in high school and demonstrated outstanding academic potential. The criteria for admission to this program are the same as those listed for the joint enrollment program. For further information on this program, prospective applicants should consult their high school counselors.

International Student Admissions. Admission of international students is based on academic admissibility, English proficiency, and proof of financial means to study in the United States. International applicants must document their ability to meet the financial requirements for attendance as required by U.S. Immigration regulations. It is recommended that international students begin their attendance at the university in the fall semester. The university also

recommends that international students attend an ESL language center prior to enrollment. Please contact the admissions office by writing to Armstrong Atlantic State University, International Education Office, 11935 Abercorn St., Savannah, GA 31419-1997, or call 912-344-2503 or 1-800-633-2349 to receive an admissions packet or ask questions.

International students must meet the following requirements before application is made:

- International students must have completed the equivalent of graduation from a U.S. high school. However, college preparatory curriculum (CPC) requirements do not apply to these students.
- Each applicant must have official secondary (high school) or post secondary (college or university) credentials, certificates, or diplomas mailed to the international office at the address above. Official documents must bear authoritative signatures, seals and/ or stamps, and should be sent by the institution responsible for issuing such documents. In cases where it is impossible for these credentials to be sent from the institution, or only one set of originals is available to students, they should forward an “attested” copy of the original. The attestation must be done by a proper institution official or by the ministry of education in the home country. A certified original translation must accompany all documents not printed in English. Transfer applicants with credentials from institutions outside of the U.S. are required to have a course by course evaluation from a professional evaluation agency before they are eligible for admission to the university. Listed below are suggested evaluation agencies and web site addresses.

Josef Silny, Inc. - www.jsilny.com

World Education Services - www.wes.org

Armstrong must receive official transcripts, translations, and evaluations before an application for admission will be considered.

- A student whose native language is not English must take the Test of English as a Foreign Language (TOEFL) and score a minimum of 523 on the written, 193 on the computer-based, or 70 on the internet-based test.
- Non-native speakers of English who meet minimum SAT I verbal or ACT English admissions requirements do not need to take the TOEFL for admissions purposes.
- In addition to meeting the regular admission requirements, international prospective students must show ability to meet financial obligations of tuition, fees, and living expenses before Certificates of Eligibility (SEVIS I-20) and acceptance letters are issued. Current (less than one year old) letters of financial support must accompany the official statements of financial resources. Having sufficient funds for the cost of living and educational expenses is required by U.S. Immigration regulations. There is no financial aid available for international students at Armstrong Atlantic, other than competitive scholarships for which students must qualify. International students on non-immigrant visas are not eligible for state or federally-funded loans or scholarships in the U.S.
- Health insurance is mandatory for all international students on non-immigrant visas enrolled at Armstrong Atlantic State University.

After submission of all completed application forms and all required records, the university will make an admission decision. If an application is approved, the university will send an I-20 form which the international student will use to obtain a student visa.

Joint Enrollment Admission. Through this program for superior high school juniors and seniors, students may complete more than two-thirds of the freshman year of college before beginning a regular college career. Students in this program may enroll for college credit while completing their junior or senior year of high school.

Students forfeit the privilege of this program if they receive a college course grade below C or their high school average in academic courses falls below B in any term. The university will consider students for this program only upon written recommendation of their high school principals or counselors.

Applicants must meet freshman admission requirements and the following criteria to be eligible for joint enrollment admission:

- minimum SAT score of 1000 (combined critical reading and mathematics sections) or the ACT composite no less than 21;

- minimum SAT critical reading score of 530 or ACT English score of 24; minimum SAT math score of 430 or ACT math score of 18;
- minimum cumulative high school grade point average of 3.0 or a numerical average of 80 or higher in academic subjects;
- written recommendation from the high school principal or counselor;
- written consent of parent or guardian (if the student is a minor);
- completion of the University System of Georgia CPC requirements with the following exceptions:
 - Students with SAT critical reading scores of at least 530 (or ACT English of at least 24) who have not completed the final unit of high school English and/or social studies may be permitted to fulfill these high school requirements with the appropriate college courses taken through the joint enrollment program.
 - Students with SAT math scores of at least 530 (or ACT math scores of at least 22) who have not completed the final unit of mathematics will be permitted to fulfill CPC requirements with the appropriate college courses taken through the joint enrollment program.

Joint Enrollment students are eligible to enroll in mathematics courses at AASU if at least one of the following applies:

- The student is enrolled at AASU as a full time student (12 or more credit hours)
- The student has completed all four units of college preparatory mathematics at the high school level and enrolls in pre-calculus or above (students are eligible to enroll in pre-calculus with an SAT mathematics score of 550 or higher, ACT math score of 23 or higher).
- The student enrolls in calculus or above (students are eligible to enroll in calculus with an SAT mathematics score of 600 or higher, ACT math score of 26 or higher).

With the exception of the final CPC units of high school English, social studies and/or mathematics taken by students with qualifying SAT or ACT scores a college course cannot be used to fulfill CPC requirements. Students who have not completed the 13 CPC requirements beyond these three exceptions may be admitted through the joint enrollment program if they are enrolled in the necessary high school courses and are scheduled to complete the requirements by the end of their senior year.

Non-Degree Student Admission. Applicants who have never attended college and who wish to pursue courses for personal enrichment or advancement may be admitted as non-degree students. To be considered, an applicant must possess a high school diploma (or have completed the GED satisfactorily) and have been out of high school for a period of five or more years.

Non-degree seeking applicants are required to fulfill all non-traditional admission requirements. Applicants who have not earned a baccalaureate degree must take the Compass Placement Exam. Non-degree seeking students are allowed to enroll in a maximum of 12 semester credit hours. After earning 12 semester credit hours or change to degree seeking status, students will be screened for admission to the university. Non-degree students must satisfy all prerequisites before enrolling in courses.

Outstanding Students Admission. Applicants who demonstrate very high academic ability by achieving a composite SAT I (critical reading + math) score in the upper five percent of national college-bound seniors according to the most recent report from the College Board and who show other evidence of college readiness will be admitted as outstanding students. (An ACT score which is equivalent to this SAT I score can also be used.) Students admitted under this admissions category are not required to meet the Freshman Index admissions requirement. Outstanding students must satisfy any CPC deficiencies in areas other than English or mathematics through college level course work.

Readmission. Students who have not been enrolled at Armstrong Atlantic for three consecutive semesters must apply for readmission. Former students who have not attended another college since leaving Armstrong Atlantic may be readmitted, provided they are not on suspension at the time they wish to reenter. Former students who have attended another college since leaving Armstrong Atlantic must meet transfer admission requirements as listed in the catalog in effect at the time of return. All readmitted students must follow semester requirements.

Transfer Admission

Applicants who have previously attended regionally accredited institutions of higher education are considered transfer students and must meet transfer admission requirements.

A transfer applicant who has completed fewer than 30 transferable semester hours or whose only attendance has been at a regionally accredited technical college in a “Non-College Transfer Program” will be required to meet freshman admission requirements (including the submission of official transcripts from each institution attended). Applicants who graduated from high school within the past five years are also required to meet CPC requirements.

Transfer applicants will not be considered for admission unless transcripts of the college or university last attended indicate academic eligibility to return to that institution. Any transfer applicant who is not academically eligible to return to the last institution attended will be denied admission to the university. Students appealing to the university for admission must complete and submit an academic appeals form to the dean of enrollment services, registrar. Appeals must include transcripts of all work and the nature of extenuating circumstances relating to the academic deficiency. The AASU Academic Appeals Committee will make a recommendation to the president, and the decision of the president is final.

Transfer students approved for admission by the AASU Academic Appeals Committee are placed on academic probation and must maintain term GPA of 2.0 or higher to continue enrollment.

Academic Standing and Grade Calculations. Armstrong Atlantic’s academic standing policy will be used to determine an applicant’s entering academic standing. Transfer students admitted on appeal by the Academic Appeals Committee will enter on academic probation.

To be eligible for continued enrollment, all transfer students are expected to maintain or exceed the required overall grade point average as indicated by Armstrong Atlantic’s academic standing policy. For details, see Academic Standing in the section on Academic Policies and Programs.

All previous college credit is included in the calculation of a student’s overall grade point average at Armstrong Atlantic State University. Letter grades transfer at face value. Armstrong Atlantic does not recognize + or - indicators when transferring credit from another institution. Incomplete grades also transfer and remain as grades of I until grade changes to remove them are received from previous institutions, until courses are repeated, or until previous institutions indicate that their policies include no penalties for incompletes. College credit is not awarded for pre-college level and remedial courses, courses taken for diploma or certification purposes, continuing education courses, or vocational courses.

Awarding of Transfer Credit. The university makes every effort to transfer credit for academic work completed at other institutions. All transfer applicants must provide the admissions office with an official transcript of all credit earned at all previously attended colleges or universities, regardless of the transferability of credits. Official evaluations of acceptable college credit awarded will be mailed to transfer students when official transcripts have been received from all institutions previously attended. Student transfer evaluation will be completed prior to or during the student’s first term of attendance. Transfer credit may be accepted from degree granting institutions that are accredited at the collegiate level by their appropriate regional accrediting agency. Students may appeal individual course decisions.

No transfer credit will be awarded from institutions not regionally accredited. An applicant transferring from an institution that is not a member of a regional accrediting agency must achieve a C average on his or her first fifteen semester hours of work at Armstrong Atlantic in order to be eligible to continue. At that point, the student may request a review of prior credit earned at a non-accredited institution as it would apply to a chosen degree program. This review process begins in the registrar’s office. In certain areas, students may be required to validate credits by examination.

Credit earned at an accredited technical college may not transfer unless the credit earned equates to an associate degree (lower division) course. This transfer practice may be further defined by specific articulation agreements with individual technical schools or systems.

Armstrong Atlantic State University reserves the right to refuse to accept any or all of the credits from any high school or other institution, notwithstanding its accreditation status, when the

university determines through investigation or otherwise that the quality of instruction at such high school or institution is, for any reason, deficient or unsatisfactory. The judgment of the university on this question will be final.

Meeting Degree Requirements. Transfer students must meet all applicable requirements under the section on General Degree Requirements to graduate from Armstrong Atlantic State University.

Students who complete an area of the core curriculum at another University System of Georgia institution are guaranteed full credit for that area in transfer if they do not change intended majors or programs of study. In Areas B, C and E, students completing the sending institution's core are guaranteed full transfer credit regardless of changes in intended majors or programs of study. A department may require a student to enroll in a core course that is required for a specific major if that course was not taken to satisfy the core area requirement. Satisfaction of a core area at another University System institution does not exempt a student from satisfying any subsequent prerequisite for a future course.

Transfer students who have not yet completed the equivalent of ENGL 1101 (Composition I) with a grade of C or higher should make an appointment to meet with the composition coordinator for an English placement interview prior to registration. The coordinator will assist the student in determining placement in the appropriate composition course(s), evaluating other English course credits, and reviewing the Regents' Test requirement.

Transfer students from outside the University System of Georgia may meet the United States government requirement by completing an American government course. They may meet the Georgia government requirement by satisfactorily completing a test on Georgia's constitution and government. This test is given on campus every term. Completion of a course in American history satisfies the requirements for both U.S. and Georgia history.

Credit by Examination

Armstrong Atlantic State University grants credit toward a college degree for the examinations and scores listed below. Credit awarded by examination cannot replace a previous grade earned for the same course.

Examinations for High School Students

Advanced Placement (www.collegeboard.com)

Test	Score Required	AASU equivalent	Credit Hours
Biology	(4)	BIOL 1107	(4)
Biology	(5)	BIOL 1107 and 1108	(8)
Chemistry	(3)	CHEM 1211/L	(4)
Computer Science AB	(3)	CSCI 1301	(4)
English Language & Composition	(3)	ENGL 1101	(3)
English Literature & Composition	(3)	ENGL 1101	(3)
English Literature & Composition	(5)	ENGL 1101 and 1102	(6a)
Environmental Science	(3)	BIOL 1140	(3)
European History	(3)	Elective	(3)
European History	(5)	Elective	(6)
French Language	(3)	FREN 1001	(3b)
French Language	(4)	FREN 1001, 1002, 2001, 2002	(12d)
French Literature	(3*)	FREN 1001	(3)
German Language	(3*)	GRMN 1001	(3)
Government & Politics: US	(3)	Elective**	(3)
Human Geography	(4)	GEOG 2120	(3)
Latin/Latin Literature	(3*)	LATN 1001	(3)
Mathematics/Calculus AB	(3)	MATH 1161	(4)
Mathematics/Calculus B/C	(3)	MATH 1161 and 2072	(8)
Macroeconomics	(3)	ECON 2105	(3)
Microeconomics	(3)	ECON 2106	(3)

Music Theory	(3)	MUSC 1111	(2)
Physics B	(3)	PHYS 1111/L, PHYS 1112/L	(8)
Physics C/Mechanics	(3)	PHYS 2111/L	(4)
Physics C/Mechanics	(3)	PHYS 2112/L	(4)
Psychology	(3)	PSYC 1101	(3)
Spanish Language	(3)	SPAN 1001	(3b)
Spanish Language	(4)	SPAN 1001, 1002, 2001, 2002	(12d)
Spanish Literature	(3*)	SPAN 1001	(3)
Statistics	(3)	MATH 2200	(3)
Studio Art (Art-Drawing)	(3)	ARTS 1010	(3)
U.S. History	(3)	HIST 2111 or 2112	(3)
U.S. History	(5)	HIST 2111 and 2112	(6)
World History	(3)	HIST 1111 or 1112	(3)
World History	(5)	HIST 1111 and 1112	(6)

International Baccalaureate Diplomas and Certificates

Students who have participated in International Baccalaureate Programs in their high schools are welcomed at Armstrong Atlantic State University. In many circumstances, we are able to award college credit for exemplary performance in IB courses.

If the student did not earn an International Baccalaureate Diploma but did earn a certificate in one or more *higher level* International Baccalaureate (IB) courses, we award specific course credit as described on the following schedule, up to a maximum of 24 semester hours.

IB course in chemistry with grade of 5, 6, or 7:	CHEM 1211/L	4 s.h.
IB course in computer science with grade of 5, 6, or 7:	CSCI 1302	3 s.h.
IB course English A1 with grade of 4, 5, 6, or 7:	ENGL 1101	3 s.h.
IB course in History of the Americas with grade of 4, 5, 6, or 7:	HIST 2111 and 2112	6 s.h.
IB course in Mathematics with grade of 5, 6, or 7:	MATH 1161	4 s.h.
IB course in physics with grade of 5, 6, or 7:	PHYS 2111/I	4 s.h.

If the student completed the International Baccalaureate Diploma, we will award credit for the specific high level courses mentioned above. However we will also examine test results both standard IB courses and higher level IB courses in all disciplines and award credit according to the following schedule.

<u>Score</u>	<u>Standard Level</u>	<u>Higher Level</u>
4	0	3-4
5	0-4	3-8
6-7	3-8	3-12

Students who have completed International Baccalaureate diplomas and/or certificates should provide evidence to the Admissions Office of their success in their courses. The Admissions office will then consult with academic officers and award credit as described above. There will be a maximum of 24 semester hours credit given on the basis of work completed in International Baccalaureate Programs. Students can not earn credit for the same course on the basis of AP testing and IB course credit.

SAT II: Subject Tests

American History	(#)	HIST 2111 or 2112	(3)
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Examinations for College Students

College-Level Examination Program (CLEP) (www.collegeboard.com)

Test	Score Required	AASU equivalent	Credit Hours
General Examinations			
Humanities	(50)	ARTS 1100	(3)
Natural Science	(50)	PHSC 1211 (without lab)	(3)
Subject Examinations			
Algebra, College	(54)	MATH 1111	(3)

American Government	(50)	Elective**	(3)
Analyzing & Interpreting Literature	(53 **)	ENGL 1102	(3)
Calculus with Elementary Functions	(61)	MATH 1161 and 2072	(8)
Composition, Freshman College	(54 **)	ENGL 1101	(3)
French Language, College Level	(50)	FREN 1001, 1002	(6b)
French Language, College Level	(62)	FREN 1001, 1002, 2001, 2002	(12c)
German Language, College Level	(50)	GRMN 1001, 1002	(6b)
History of the US I: Early Colonizations to 1877	(50)	HIST 2111	(3)
History of the US II: 1865 to the Present	(50)	HIST 2112	(3)
Information Systems and Computer Applications	(50)	ITEC 1050	(3)
Precalculus	(58)	MATH 1113	(3)
Principles of Macroeconomics	(54)	ECON 2105	(3)
Principles of Microeconomics	(54)	ECON 2106	(3)
Psychology	(50)	PSYC 1101	(3)
Sociology, Introductory	(50)	SOCI 1101	(3)
Spanish Language, College Level	(50)	SPAN 1001, 1002	(6b)
Spanish Language, College Level	(66)	SPAN 1001, 1002, 2001, 2002	(12c)
DANTES Subject Standardized Tests (DSST) (www.dsst@chauncey.com)			
Criminal Justice	(49)	CRJU 1010	(3)
General Anthropology	(47)	ANTH 1102	(3)
Principles of Statistics	(48)	MATH 2200	(3)
Excelsior College Examinations			
Statistics	(45)	MATH 2200	(3)

* Consult head of Languages, Literature, and Philosophy Department if score is higher than 3.

** AP & Georgia Government Examination needed to satisfy state requirement for US/GA gov't.

*** A "clearly passing" essay as well as a passing score on the objective test is required.

Current national average

a. A grade of C or better in ENGL 2100 is required before credit is given.

b. A grade of C or better in 2001 language course is required before credit is given.

c. A grade of C or better in a 3000-level language course is required before credit is given.

d. A grade of C or better in a 3000 level language course (that continues their sequence of study in the same language) is required before credit is given.

These guidelines are subject to change without notice. Academic departments select examinations and determine passing scores, which follow the test titles. The credit hours awarded are the same as those earned by students who complete the equivalent course(s). The letter grade K is used to identify credit by examination and has no effect on the academic grade point average. The registrar's office adds courses and credit hours to the academic records of enrolled students.

For additional information, please make inquiry to the admissions office or the Division of Student Affairs.

College Credit for Military Experience and Training

As a SOC institution, Armstrong Atlantic State University provides service members with an option to petition for credit for military education/training when deemed applicable to a degree program. Upon acceptance, students may request a review of their military education/training to determine possible academic credit. Students should submit official documentation of military education/training (AARTS, SMART, or Community College of the Air Force transcript) to the admissions office and their academic advisor for evaluation of degree-related training. All service members may be awarded three semester hours of physical activity credit and eight semester hours of military science credit upon receipt of official documentation of military education/training. Additional academic credit for military education may be granted for highly specialized academic training (e.g., foreign language schools) if applicable to the service member's degree program.

Students with a declared major may petition the AASU department head responsible for the course in question. Adequate documentation must be provided by the student and accompany each request. Proper documentation will include a complete syllabus of the course under review, school catalog, textbook description, and prerequisite track.

Certificate Programs

Armstrong Atlantic State University offers several certificate programs that have specific admission requirements in addition to those of the university. Please refer to the appropriate area in this catalog for details.

- Basic law enforcement certificate – see Special Programs.
- European Union studies certificate – see Special Programs.
- Financial economics certificate – see Department of Economics.
- Forensic Science certificate – see Special Programs, Department of Chemistry and Physics.
- Gender and Women's Studies – see Special Programs
- Gerontology certificate – see Department of Health Science.
- Information technology certificate – see Department of Computer Science
- Latin American studies certificate – see Special Programs.
- Medical technology certificate – see Department of Medical Technology.
- Post baccalaureate Pre-Medical Studies certificate – see Special Programs.
- Post baccalaureate radiation therapy certificate – see Department of Radiologic Sciences.
- Teacher certification – see College of Education

External Degree Programs

Applicants who wish to earn a degree from Armstrong Atlantic State University through one of the external degree programs must meet all admission requirements. External degree sites include the Brunswick Center on the campus of the Coastal Georgia Community College in Brunswick and the Liberty Center on the Fort Stewart U.S. Army Post in Hinesville.

Brunswick Center

Criteria for Admission. Anyone who has completed an associate degree or its equivalent is eligible for admission to Brunswick Center programs and courses. Moreover, Coastal Georgia Community College students who have sophomore standing and meet certain requirements, including completion of all core curriculum English requirements and Regents' Test passage, may be admitted to Brunswick Center classes taught by the universities. Anyone who already has a baccalaureate degree also may be admitted as a non-degree student to take courses, particularly for teacher certification.

Admission Procedures. Prospective students must apply for admission to Armstrong Atlantic State University and meet all admission requirements for that institution. The admission application process is handled through the Brunswick Center Office; the completed application and all transcripts of previous college work must be sent for preliminary processing to the Brunswick Center, which will then send the documents to the Armstrong Atlantic admissions office.

After Admission. Once admitted to Armstrong Atlantic State University or either of the other consortium institutions, students are allowed to take courses offered through the Brunswick Center by all three institutions. The senior institutions accept all course work done through the Brunswick Center as resident credit. Upper level courses taken by Coastal Georgia Community College students will be applied toward their baccalaureate degrees. The director of the Brunswick Center serves as the initial advisor, meeting with each student to outline an overall program as well as to plan a schedule every semester. Registration for the Brunswick Center is done through the center's office. Students are encouraged to participate in preregistration for the next semester. Graduation requirements for each degree are set by Armstrong Atlantic State University. Armstrong Atlantic's registrar and appropriate department heads certify each candidate for graduation. Brunswick Center

students have full use of the Coastal Georgia Community College's library and other support services.

Fees. A \$25 processing fee must accompany each application for admission to Armstrong Atlantic State University. Tuition fees are collected at the current rates set by the University System Board of Regents. University students taking four or more semester hours at Coastal Georgia Community College also must pay student activity, athletic and technology fees at this institution.

Financial Aid. Students seeking financial aid should make application through the financial aid office of their home institution. Financial aid application forms for Armstrong Atlantic State University may be obtained from the Brunswick Center office.

Liberty Center

As a result of a cooperative effort by Armstrong Atlantic State University and business, civic, and educational leaders in Hinesville and Liberty County, The Liberty Center was established to offer courses to students in the Liberty County area who would like to pursue higher education locally. Students should contact The Liberty Center at 912.368.7140 for admissions information and schedule of class offerings.

Honors Program

Entering students may apply to the honors program if they score 1100 on the verbal and mathematics portion of the SAT and graduate with a 3.2 grade point average on a 4.0 scale. Students scoring 3 or better on each of three advanced placement examinations of the College Board are also eligible to apply.

Continuing students may apply to enter the honors program if they have at least a 3.2 overall grade point average in university course work and are either enrolled in or have completed an honors course. Transfer students may apply to enter the honors program under special conditions that consider courses transferred into the university. Honors courses in the core are open to all students who meet the published prerequisites.

Regents Engineering Transfer Program (RETP)

The Regents Engineering Transfer Program at Armstrong Atlantic State University provides two access points for admission. First, at the time of admission to Armstrong Atlantic, the student must have achieved a minimum composite SAT score of 1090 with a math SAT of at least 560, and a 3.0 high school grade point average. Any student who has been admitted to an engineering program at Georgia Tech on the basis of his or her academic record can also enter Armstrong Atlantic as an RETP student even if these requirements are not met.

Students at Armstrong Atlantic who do not qualify for admission to the RETP under the terms of the previous paragraph can be admitted to Georgia Tech through RETP after completing the RETP curriculum by virtue of good academic performance at Armstrong Atlantic. The basis for transfer to Georgia Tech is a 2.7 overall grade point average plus 2.7 grade point averages in the combined math series (beginning with Calculus I), the science courses for the major, and C's or better in chemistry, English, and all courses to be transferred.

Regents Engineering Transfer Program students must be U.S. citizens with Georgia residency. Additional information may be found at www.engineering.armstrong.edu.

Georgia Tech Regional Engineering Program (GTREP)

Engineering students can complete the baccalaureate degrees in civil engineering, computer engineering, electrical engineering, and mechanical engineering from the Georgia Institute of Technology without leaving Savannah. Students who successfully complete their first two years in Armstrong Atlantic's Engineering Transfer Program are transferred to Georgia Tech student status (GTREP). The basis for transfer into GTREP as a Georgia Tech student is a 2.7 Regents'

overall grade point average plus 2.7 grade point averages in the combined math series (beginning with Calculus I), the science courses for the major, and C's or better in chemistry, English, and all courses to be transferred. GTREP is open to in-state and out-of-state residents. Out-of-state residents need 3.0 grade point averages overall and in the math and science sequences. Additional information may be found at www.engineering.armstrong.edu.

Sixty-Two Plus Program

Sixty-two Plus is an Armstrong Atlantic program of life-long learning for senior citizens. Those who are at least 62 years of age may enroll in credit courses on a space-available basis without payment of fees, except for books, supplies, laboratory or special course fees. They must be residents of Georgia and must present a birth certificate (or comparable written documentation of age) to enable the admissions office to determine eligibility. In addition, individuals in the 62 Plus program must meet all admission and degree requirements. Information about this program may be obtained from the Office of Student Success. Once 62 Plus students have earned ten semester hours (including institutional credit), they will be required to fulfill any learning support requirements; the only exception being Audit-only students. All 62 plus students must register in the Office of Student Success for fees to be waived.

SOCAD Program

Active duty U. S. Army personnel and their dependents may elect to attend Armstrong Atlantic State University under the provisions of the SOCAD Agreement. Applicants who have an active student agreement with another SOCAD institution should meet Armstrong Atlantic's admission requirements for transient students. The student agreement will serve as the transient letter. Applicants who wish to earn a degree from Armstrong Atlantic State University under the SOCAD provisions must meet either freshmen or transfer admission requirements.

Veterans Affairs Program

The Office of Veterans' Affairs, located in Victor Hall, room 104, coordinates the GI Bill and all other related veteran educational benefit programs to more than 350 students attending the university. The Office of Veterans' Affairs is the direct liaison between Armstrong Atlantic State University veteran students and the veterans' Administration Regional Office in Atlanta regarding all GI Bill administrative issues. Armstrong Atlantic State University does not have an advance payment agreement established with the Veterans Administration. Students receiving GI Bill benefits must be prepared to pay their tuition and fees at the time of registration. Veterans are encouraged to contact the Office of Veterans' Affairs during their application and admission process to the university.

Vocational Rehabilitation Applicant Program

Applicants sponsored by vocational rehabilitation or other community agencies must apply at least six weeks before the beginning of any semester to insure proper processing of applications.

Graduate Admissions

Graduate program specific admission requirements are listed in the Armstrong Atlantic State University Graduate Catalog.

Acceptance to the University

Applicants must provide evidence of academic success in order to be admitted to Armstrong Atlantic State University.

The university reserves the right to review any and all related documentation and employ appropriate means to assess the suitability of applicants for enrollment in the university. Acceptance or denial of admission to the university will be based upon the results of this review.

The university may require any applicant to appear for a personal interview and to take any achievement, aptitude, and psychological tests deemed necessary to make a decision regarding the applicant's qualification for admission to the university.

The director of admissions determines final acceptance or denial of each application. Admission decisions are subject to the applicant's right of appeal to the admissions and academic standing committee prior to the beginning of the desired term of entry. The committee will review appeals and make recommendations to the president of the university, who will render a decision. The university reserves the right to withdraw admission before or after enrollment if the student becomes ineligible as determined by the standards of the university or Board of Regents.

The university reserves the right to deny admission to an applicant who is not a resident of Georgia. All students enrolled at Armstrong Atlantic State University are required to abide by the provisions of the honor code.

Admission to the university does not guarantee admission to teacher education programs. Additional requirements are listed in the College of Education section of this catalog.

Admission to the university does not guarantee admission to health professions programs. Specific admission requirements are given in the departmental listings in the College of Health Professions section of this catalog.

Student Fees and Financial Policies

Expenses and Fees

Principal expenses and regulations concerning the payment of fees are described herein. Fees and other charges are subject to change without notice. When such changes are made, notice will be given as far in advance as possible. Expenses are in the form of tuition, out-of-state tuition, student services fees and other special fees. Fees of all students are due and payable at the time of registration; registration is not complete until all fees have been paid. Out-of-state residents pay higher fees than Georgia residents. All tuition and fees are due at registration according to the guidelines of the Board of Regents of the University System of Georgia. There are no deferments of fees or payment plans. The university reserves the right to apply all payments, deposits, or financial aid to any unpaid student balances.

Guaranteed Tuition Plan

Background: Effective Fall 2006, the Board of Regents of the University System of Georgia approved the creation of a Guaranteed Tuition Plan (GTP) for certain undergraduate students designed to provide greater predictability in tuition costs for students and parents, and also encourage early graduation (BOR Policy Manual, Section 704). This Guaranteed Tuition Plan is only for tuition. Other fees, such as technology, activity, athletic, health, and recreation are not guaranteed for the term of the plan.

Applies to: New undergraduate students entering Fall 2006 or later, as classified below. (This does not apply to graduate students).

New Freshmen Students: GTP rate is fixed for two years (6 consecutive semesters) or four years (12 consecutive semesters), dependent upon whether the particular student is enrolled in a two-year or four-year degree program.

New Transfer Students: Charged the GTP rate effective the year of transfer and is fixed for two years (6 consecutive semesters).

Auditors, Transient, Non Degree-Seeking, Post Baccalaureate, and Joint Enrolled Students: Students are not eligible for GTP. Students are charged the GTP rate approved by the Board of Regents for the year in which enrollment occurs.

Expiration of the Guaranteed Tuition Plan

The guaranteed tuition rate for new and transfer students will expire at the end of the periods described. Students shall then be charged the guaranteed tuition rates established for the next semester in which they enroll at the same institution. Students will be charged the new guaranteed tuition rates established each year by the Board of Regents.

Exceptions to Policy

1. New freshmen and transfer students enrolled Summer term will be included in the GTP cohort groups beginning in Fall.
2. Active Duty Military: Students called to active duty military will receive an extended guarantee for the period of service, up to two years (6 consecutive semesters).

Continuing Tuition Rate

Background: Effective Fall 2006, the Board of Regents established a Continuing Tuition Rate for undergraduate students who entered for the first time as new students or as transfer students prior to Fall 2006 (BOR Policy Manual, Section 704). The Continuing Tuition Rate may increase annually as approved by the Board of Regents.

Applies to: Current and continuing (readmits) undergraduate students enrolled prior to Fall 2006.

**TUITION AND FEES RATE PER SEMESTER
FALL 2008 THROUGH SUMMER 2009
(CONTINUING RATE)***

UNDERGRADUATE IN-STATE

Hrs	Student Center Fee	Student Access Fee	ID Fee	Health Fee	Tech Fee	Athletic Fee	Activity Fee	Recreation Fee	In-State Tuition	Total In-State Tuition & Fees
1	\$90	\$15		\$13	\$47	\$137	\$44	\$43	\$ 118	\$ 507
2	90	15		13	47	137	44	43	236	625
3	90	15		13	47	137	44	43	354	743
4	90	15		13	47	137	44	43	472	861
5	90	15		13	47	137	44	43	590	979
6	90	15		13	47	137	44	43	708	1097
7	90	15		13	47	137	44	43	826	1215
8	90	15		13	47	137	44	43	944	1333
9	90	15		13	47	137	44	43	1062	1451
10	90	15		13	47	137	44	43	1180	1569
11	90	15		13	47	137	44	43	1298	1687
12	90	15		13	47	137	44	43	1413	1802
or more										

UNDERGRADUATE OUT-OF-STATE

Hrs	Student Center Fee	Student Access Fee	ID Fee	Health Fee	Tech Fee	Athletic Fee	Activity Fee	Recreation Fee	In-State Tuition	Total In-State Tuition & Fees
1	\$90	\$15		\$13	\$47	\$137	\$44	\$43	\$ 471	\$ 860
2	90	15		13	47	137	44	43	942	1331
3	90	15		13	47	137	44	43	1413	1802
4	90	15		13	47	137	44	43	1884	2273
5	90	15		13	47	137	44	43	2355	2744
6	90	15		13	47	137	44	43	2826	3215
7	90	15		13	47	137	44	43	3297	3686
8	90	15		13	47	137	44	43	3768	4157
9	90	15		13	47	137	44	43	4239	4628
10	90	15		13	47	137	44	43	4710	5099
11	90	15		13	47	137	44	43	5181	5570
12	90	15		13	47	137	44	43	5646	6035
or more										

*Students who entered prior to fiscal year 2007.

FEES ARE CHARGED AT EITHER THE GRADUATE OR UNDERGRADUATE RATE BASED UPON THE STUDENT CLASSIFICATION IN THE STUDENT INFORMATION SYSTEM. FEES ARE SUBJECT TO CHANGE.

**TUITION AND FEES RATE PER SEMESTER
FALL 2008 THROUGH SUMMER 2009
(FIXED FOR FOUR-YEAR 1)***

UNDERGRADUATE IN-STATE

	Student Center	Student Access	ID	Health	Tech	Athletic	Activity	Recreation	In- State	Total In-State
Hrs	Fee	Fee		Fee	Fee	Fee	Fee	Fee	Tuition	Tuition & Fees
1	\$90	\$15		\$13	\$47	\$137	\$44	\$43	\$ 107	\$ 496
2	90	15		13	47	137	44	43	214	603
3	90	15		13	47	137	44	43	321	710
4	90	15		13	47	137	44	43	428	817
5	90	15		13	47	137	44	43	535	924
6	90	15		13	47	137	44	43	642	1031
7	90	15		13	47	137	44	43	749	1138
8	90	15		13	47	137	44	43	856	1245
9	90	15		13	47	137	44	43	963	1352
10	90	15		13	47	137	44	43	1070	1459
11	90	15		13	47	137	44	43	1177	1566
12	90	15		13	47	137	44	43	1280	1669
or more										

UNDERGRADUATE OUT-OF-STATE

	Student Center	Student Access	ID	Health	Tech	Athletic	Activity	Recreation	In- State	Total In-State
Hrs	Fee	Fee		Fee	Fee	Fee	Fee	Fee	Tuition	Tuition & Fees
1	\$90	\$15		\$13	\$47	\$137	\$44	\$43	\$ 427	\$ 816
2	90	15		13	47	137	44	43	854	1243
3	90	15		13	47	137	44	43	1281	1670
4	90	15		13	47	137	44	43	1708	2097
5	90	15		13	47	137	44	43	2135	2524
6	90	15		13	47	137	44	43	2562	2951
7	90	15		13	47	137	44	43	2989	3378
8	90	15		13	47	137	44	43	3416	3805
9	90	15		13	47	137	44	43	3843	4232
10	90	15		13	47	137	44	43	4270	4659
11	90	15		13	47	137	44	43	4697	5086
12	90	15		13	47	137	44	43	5121	5510
or more										

*Students in the fiscal year 2007 cohort class.

**FEES ARE CHARGED AT EITHER THE GRADUATE OR UNDERGRADUATE RATE BASED UPON THE STUDENT
CLASSIFICATION IN THE STUDENT INFORMATION SYSTEM. FEES ARE SUBJECT TO CHANGE.**

**TUITION AND FEES RATE PER SEMESTER
FALL 2008 THROUGH SUMMER 2009
(FIXED FOR FOUR - YEAR 2)***

UNDERGRADUATE IN-STATE

Hrs	Student Center Fee	Student Access Fee	ID Fee	Health Fee	Tech Fee	Athletic Fee	Activity Fee	Recreation Fee	In-State Tuition	Total In-State Tuition & Fees
1	\$90	\$15		\$13	\$47	\$137	\$44	\$43	\$ 120	\$ 509
2	90	15		13	47	137	44	43	240	629
3	90	15		13	47	137	44	43	360	749
4	90	15		13	47	137	44	43	480	869
5	90	15		13	47	137	44	43	600	989
6	90	15		13	47	137	44	43	720	1109
7	90	15		13	47	137	44	43	840	1229
8	90	15		13	47	137	44	43	960	1349
9	90	15		13	47	137	44	43	1080	1469
10	90	15		13	47	137	44	43	1200	1589
11	90	15		13	47	137	44	43	1320	1709
12	90	15		13	47	137	44	43	1434	1823
or more										

UNDERGRADUATE OUT-OF-STATE

Hrs	Student Center Fee	Student Access Fee	ID Fee	Health Fee	Tech Fee	Athletic Fee	Activity Fee	Recreation Fee	In-State Tuition	Total In-State Tuition & Fees
1	\$90	\$15		\$13	\$47	\$137	\$44	\$43	\$ 478	\$ 867
2	90	15		13	47	137	44	43	956	1345
3	90	15		13	47	137	44	43	1434	1823
4	90	15		13	47	137	44	43	1912	2301
5	90	15		13	47	137	44	43	2390	2779
6	90	15		13	47	137	44	43	2868	3257
7	90	15		13	47	137	44	43	3346	3735
8	90	15		13	47	137	44	43	3824	4213
9	90	15		13	47	137	44	43	4302	4691
10	90	15		13	47	137	44	43	4780	5169
11	90	15		13	47	137	44	43	5258	5647
12	90	15		13	47	137	44	43	5736	6125
or more										

*Students in the fiscal year 2008 cohort class.

FEES ARE CHARGED AT EITHER THE GRADUATE OR UNDERGRADUATE RATE BASED UPON THE STUDENT CLASSIFICATION IN THE STUDENT INFORMATION SYSTEM. FEES ARE SUBJECT TO CHANGE.

**TUITION AND FEES RATE PER SEMESTER
FALL 2008 THROUGH SUMMER 2009
(FIXED FOR FOUR - YEAR 3)***

UNDERGRADUATE IN-STATE

	Student Center	Student Access	ID	Health	Tech	Athletic	Activity	Recreation	In- State	Total In-State
Hrs	Fee	Fee		Fee	Fee	Fee	Fee	Fee	Tuition	Tuition & Fees
1	\$90	\$15		\$13	\$47	\$137	\$44	\$43	\$ 130	\$ 519
2	90	15		13	47	137	44	43	260	649
3	90	15		13	47	137	44	43	390	779
4	90	15		13	47	137	44	43	520	909
5	90	15		13	47	137	44	43	650	1039
6	90	15		13	47	137	44	43	780	1169
7	90	15		13	47	137	44	43	910	1299
8	90	15		13	47	137	44	43	1040	1429
9	90	15		13	47	137	44	43	1170	1559
10	90	15		13	47	137	44	43	1300	1689
11	90	15		13	47	137	44	43	1430	1819
12	90	15		13	47	137	44	43	1549	1938
or more										

UNDERGRADUATE OUT-OF-STATE

	Student Center	Student Access	ID	Health	Tech	Athletic	Activity	Recreation	In- State	Total In-State
Hrs	Fee	Fee		Fee	Fee	Fee	Fee	Fee	Tuition	Tuition & Fees
1	\$90	\$15		\$13	\$47	\$137	\$44	\$43	\$ 517	\$ 906
2	90	15		13	47	137	44	43	1034	1423
3	90	15		13	47	137	44	43	1551	1940
4	90	15		13	47	137	44	43	2068	2457
5	90	15		13	47	137	44	43	2585	2974
6	90	15		13	47	137	44	43	3102	3491
7	90	15		13	47	137	44	43	3619	4008
8	90	15		13	47	137	44	43	4136	4525
9	90	15		13	47	137	44	43	4653	5042
10	90	15		13	47	137	44	43	5170	5559
11	90	15		13	47	137	44	43	5687	6076
12	90	15		13	47	137	44	43	6195	6584
or more										

*Students in the fiscal year 2009 cohort class.

**FEES ARE CHARGED AT EITHER THE GRADUATE OR UNDERGRADUATE RATE BASED UPON THE STUDENT
CLASSIFICATION IN THE STUDENT INFORMATION SYSTEM. FEES ARE SUBJECT TO CHANGE.**

**TUITION AND FEES RATE PER SEMESTER
FALL 2008 THROUGH SUMMER 2009**

GRADUATE IN-STATE

	Student Center	Student Access	ID	Health	Tech	Athletic	Activity	Recreation	In- State	Total In-State
Hrs	Fee	Fee		Fee	Fee	Fee	Fee	Fee	Tuition	Tuition & Fees
1	\$90	\$15		\$13	\$47	\$137	\$44	\$43	\$ 148	\$ 537
2	90	15		13	47	137	44	43	296	685
3	90	15		13	47	137	44	43	444	833
4	90	15		13	47	137	44	43	592	981
5	90	15		13	47	137	44	43	740	1129
6	90	15		13	47	137	44	43	888	1277
7	90	15		13	47	137	44	43	1036	1425
8	90	15		13	47	137	44	43	1184	1573
9	90	15		13	47	137	44	43	1332	1721
10	90	15		13	47	137	44	43	1480	1869
11	90	15		13	47	137	44	43	1628	2017
12	90	15		13	47	137	44	43	1776	2165
or more										

GRADUATE OUT-OF-STATE

	Student Center	Student Access	ID	Health	Tech	Athletic	Activity	Recreation	In- State	Total In-State
Hrs	Fee	Fee		Fee	Fee	Fee	Fee	Fee	Tuition	Tuition & Fees
1	\$90	\$15		\$13	\$47	\$137	\$44	\$43	\$ 592	\$ 981
2	90	15		13	47	137	44	43	1184	1573
3	90	15		13	47	137	44	43	1776	2165
4	90	15		13	47	137	44	43	2368	2757
5	90	15		13	47	137	44	43	2960	3349
6	90	15		13	47	137	44	43	3552	3941
7	90	15		13	47	137	44	43	4144	4533
8	90	15		13	47	137	44	43	4736	5125
9	90	15		13	47	137	44	43	5328	5717
10	90	15		13	47	137	44	43	5920	6309
11	90	15		13	47	137	44	43	6512	6901
12	90	15		13	47	137	44	43	7104	7493
or more										

FEES ARE CHARGED AT EITHER THE GRADUATE OR UNDERGRADUATE RATE BASED UPON THE STUDENT
CLASSIFICATION IN THE STUDENT INFORMATION SYSTEM. FEES ARE SUBJECT TO CHANGE.

- Students in specified courses may be subject to additional fees for laboratory materials or equipment. Examples include applied music or scuba diving classes.
- On-campus students must pay an activity fee, an athletic fee, a recreation fee, and a health fee each semester, regardless of the number of hours enrolled. On-campus courses are defined as being physically located in Chatham County.
- Students registered for a combination of on- and off-campus courses will be charged student activity, athletic, health, and recreation fees.
- Internet courses are categorized as off-campus courses. A course will be considered an internet course if 100% of the course instruction is delivered over the internet.
- All students enrolled for classes will be charged the technology fee, and, if applicable, the activity, athletic, health, and recreation fees, regardless of the length of the class.
- Active duty military personnel and stationed in Georgia (except military personnel assigned to this institution for educational purposes) and their dependents are eligible for out-of-state tuition waivers. Documentation must be approved by the Registrar's Office.
- Tuition and fees are waived for Georgia residents who present to the Registrar's Office written documentation that they are 62 years of age or older and meet residency requirements.

Regents' Policies Governing Residency Requirements

Legal residents of Georgia, as well as certain categories of non-residents, are eligible to pay resident fees in accordance with the following Board of Regents' rules:

- A. 1. If a person is 18 years of age or older, he or she may register for a period of at least 12 months immediately preceding the date of registration.
 - i. A student whose parent, spouse, or court-appointed guardian is a legal resident of the state of Georgia may register as a resident providing the parent, spouse, or guardian can provide proof of legal residency in the state of Georgia for at least 12 consecutive months immediately preceding the date of registration.
 - ii. A student who previously held residency status in the state of Georgia but moved from the state then returned to the state in 12 or fewer months.
 - iii. Students who are transferred to Georgia by an employer are not subject to the durational residency requirement. Documentation required.
2. No emancipated minor or other person 18 years or age or older shall be deemed to have gained or acquired in-state status for tuition purposes while attending any education institution in this state, in the absence of a clear demonstration that he or she has in fact established legal residence in this state.
- B. If a parent or legal guardian of a student changes his or her legal residence to another state following a period of legal residence in Georgia, the student may retain his or her classification as an in-state student as long as he or she remains continuously enrolled in the University System of Georgia, regardless of the status of his or her parent or legal guardian.
- C. In the event that a legal resident of Georgia is appointed by a court as guardian of a non-resident member, such minor will be permitted to register as an in-state student providing the guardian can provide proof that he or she has been a resident of Georgia for a period of 12 months immediately preceding the date of the court appointment.
- D. Aliens shall be classified as non-resident students; provided, however, that an alien who is living in this country under an immigration document permitting indefinite or permanent residence shall have the same privilege of qualifying for in-state tuition as a citizen of the United States.

Waivers*

An institution may waive out-of-state tuition for:

1. Academic Common Market. Students selected to participate in a program offered through the Academic Common Market.

2. International and Superior Out-of-State Students. International students and superior out-of-state students selected by the institutional president or an authorized representative, provided that the number of such waivers in effect does not exceed two percent of the equivalent full-time students enrolled at the institution in the fall term immediately preceding the term for which the out-of-state tuition is to be waived.
3. University System Employees and Dependents. Full-time employees of the University System, their spouses, and their dependent children.
4. Medical/Dental Students and Interns. Medical and dental residents and medical and dental interns at the Medical College of Georgia (BOR Minutes, 1986-87, p.340).
5. Full-Time School Employees. Full-time employees in the public schools of Georgia or of the Department of Technical and Adult Education, their spouses, and their dependent children. Teachers employed full-time on military bases in Georgia shall also qualify for this waiver (BOR Minutes, 1988-89, p.43).
6. Career Consular Officials. Career consular officials, their spouses, and their dependent children who are citizens of the foreign nation that their consular office represents and who are stationed and living in Georgia under orders of their respective governments.
7. Military Personnel. Military personnel, their spouses, and their dependent children stationed in Georgia and on active duty, unless such military personnel are assigned as students to system institutions for educational purposes.
8. Research University Graduate Students. Graduate students attending the University of Georgia, the Georgia Institute of Technology, Georgia State University, and the Medical College of Georgia, which shall be authorized to waive the out-of-state tuition differential for a limited number of graduate students each year, with the understanding that the number of students at each of these institutions to whom such waivers are granted shall not exceed the number assigned at any one point in time.
9. Border County Residents. Residents of an out-of-state county bordering a Georgia county in which the reporting institution or a board-approved external center of the University System is located. Armstrong has agreements with Jasper and Beaufort counties, South Carolina.
10. National Guard Members. Full-time members of the Georgia National Guard, their spouses, and their dependent children. (BOR Minutes, April, 1998, pp. 16-17).
11. Students Enrolled in University System Institutions as Part of Competitive Economic Development Projects. Students who are certified by the Commissioner of the Georgia Department of Industry, Tourism and Trade as being part of a competitive economic development project.
12. Students in Georgia-based Corporations. Students who are employees of Georgia-based corporations or organizations that have contracted with the Board of Regents through University System institutions to provide out-of-state tuition differential waivers.
13. Students in Pilot Programs. Students enrolled in special pilot programs approved by the Chancellor. The Chancellor shall evaluate institutional requests for such programs in light of good public policy and the best interests of students. If a pilot program is successful, the tuition program shall be presented to the Board for consideration.
14. Students in ICAPP Advantage Programs. Any student participating in an ICAPP Advantage program.
15. Direct Exchange Program Students. Any international student who enrolls in a University System institution as a participant in a direct exchange program that provides reciprocal benefits to University System students.
16. Families Moving to Georgia. A dependent student who, as of the first day of term of enrollment, can provide documentation supporting that his or her supporting parent or court-appointed guardian has accepted full-time, self-sustaining employment and established domicile in the state of Georgia for reasons other than gaining the benefit of favorable tuition rates may qualify immediately for an out-of-state tuition differential waiver which will expire 12 months from the date the waiver was granted. An affected student may petition for residency status according to established procedures at the institution.

17. Recently Separated Military Service Personnel. Members of a uniformed military service of the United States who, within 12-months of separation from such service, enroll in an academic program and demonstrate an intent to become a permanent resident of Georgia. This waiver may be granted for not more than one year.

* Please consult the registrar's office regarding waiver requests.

Residency Reclassification

Students are responsible for registering under the proper residency classification. A student classified as a non-resident who believes that he or she is entitled to be reclassified as a legal resident may petition the registrar for a change in status. The petition must be filed no later than sixty (60) days after the term begins in order for the student to be considered for reclassification for the term. If the petition is granted, reclassification will not be retroactive to prior semesters. Petition forms are available in the registrar's office.

Bordering County Agreements

Armstrong Atlantic State University has bordering county tuition agreements with Jasper and Beaufort counties in South Carolina. Contact the Registrar for more information.

Off-Campus Fees

All students enrolled in courses categorized "on campus" will be charged athletic, student center, access ID, health, recreation, and activity fees. "On-campus" courses are those defined as being physically located in Chatham County. Students enrolled exclusively in courses categorized as "off-campus" will not be charged health, athletic, student center, access ID, activity, and recreation fees. "Off-campus" courses are those defined as being physically located outside of Chatham County. Students taking a combination of on and off-campus courses will be charged the athletic, student center, access ID, activity, health, and recreation fees. Internet courses will be classified as off-campus. A course will be considered as Internet if 100% of the course is delivered over the Internet. All students pay a technology fee.

Other Fees and Deposits Fee rates listed below are for Fall 2008 - Summer 2009

Application Fee (Non-Refundable): **Undergraduate \$25.00**
Graduate \$30.00

Must accompany initial application. Acceptance of application fees does not constitute acceptance of applicants.

Exit Exam Fees:

Announced in test bulletins.

Graduation Fee (Non-Refundable): **\$54.00**

Payable by each candidate for graduation when graduation application is submitted (two semesters prior to graduation). If candidate is receiving a second degree at the same graduation ceremonies, an additional \$10.00 is due. The full \$52.00 is charged for a second degree awarded at a subsequent graduation ceremony. A fee of \$25.00 is charged for each replacement diploma.

Nursing Deposit (Non-Refundable): **\$175.00**

Medical Technology Deposit (Non-Refundable): **\$50.00**

Radiologic Sciences Deposit (Non-Refundable): **\$100.00**

Dental Hygiene Deposit (Non-Refundable): **\$100.00**

Physical Therapy Deposit (Non-Refundable): **\$250.00**

For accepted applicants to retain their position in the program.

Late Registration Fee (Non-Refundable): \$54.00

A late registration fee is charged to all students who do not complete registration by the close of business during the regular registration period. Registration is completed by registering for class(es) and paying all fees on your student account. Students who have completed registration during the regular registration period and subsequently add classes during late registration are not charged a late registration fee. Students having checks for tuition returned for non payment will be charged the late registration fee.

Student Parking Decal (Non-Refundable) \$50.00

Annual fee covering August through next July.

Recreation Fee \$43.00**Student Athletic Fee \$137.00****Student Activity Fee \$44.00****Student Center Fee \$90.00****Student Access ID Fee \$15.00****Student Technology Fee \$47.00****Navigate AASU Fee (Non-Refundable) \$45.00****Health Fee \$13.00****Compass Exam Fee \$20.00, \$40.00, \$50.00****Residence Life Programming Fee \$30.00****Lost Check Fee \$26.00**

Students who lose university checks will be charged a \$26 replacement fee, which is the amount the bank charges the university.

Laboratory Science Fees

All students enrolled in the following laboratory science courses are required to pay additional fees.

**Art Labs \$12.00, \$15.00, \$20.00, \$25.00,
\$30.00, \$35.00, \$45.00, \$60.00, or \$70.00****BIOL 1107 \$35.00****BIOL 1108 \$35.00****BIOL 2010 \$35.00****BIOL 2081 \$35.00****BIOL 2082 \$35.00****BIOL 2275 \$35.00****BSN Exit \$30.00****CHEM 1151L \$20.00****CHEM 1152L \$20.00****CHEM 1211 \$35.00****CHEM 1212 \$35.00****Engineering Lab \$50.00****ISCI 2002L \$20.00****Math Exit \$5.00, \$10.00 or \$15.00****Math Fee \$5.00 or \$10.00****Medical Technology Lab \$50.00****PHSC 1211L \$20.00****PHYS 1111L \$35.00****PHYS 1112L \$35.00****PHYS 2211L \$35.00****PHYS 2212L \$35.00****PSYC 4000 \$20.00/\$30.00****PSYC 3020 \$20.00/\$30.00****PSYC 4080 \$20.00/\$30.00****Radiologic Science Lab \$25.00**

Radiologic Senior Seminar	\$50.00
SCIE 1100L	\$20.00

Music Fees

All students (including music majors) are required to pay a fee for applied music courses.

MUSC 1300 (fourteen 25 minute lessons)	\$52.00
MUSC 1400-4400 (fourteen 50 minute lessons and one group performance class)	\$104.00

The applied music fee is refundable only if the student does not meet the first scheduled lesson.

Teacher Education Internship Fee

Students admitted to teacher education programs in the College of Education after August 20, 1998 are required to pay a \$250.00 internship fee (to be submitted with internship application).

Continuing Education Courses (Non-Credit)

Fees are announced every semester for scheduled courses (fees vary by course). Students who formally withdraw from a continuing education course, short course, or workshop, up to twenty-four hours prior to the first class meeting will receive a full refund of fees paid. No refunds will be made for withdrawals after the first class meeting. Fees paid for courses or conferences canceled by the office of Continuing Education will be refunded 100%. Refund checks will be mailed approximately four weeks after approved withdrawal form is received by the office of Financial Services.

Refund Policy

Refund of tuition and fees may be requested only upon written application for withdrawal from school. A Withdrawal Form should be completed in the Office of Student Affairs. Refunds are based on the withdrawal date of the term's calendar days, not how many times individual classes have met. The refund amount for students withdrawing from the institution shall be based on a pro rata percentage determined by dividing the number of calendar days in the semester that the student completed by the total calendar days in the semester. The total calendar days in a semester includes weekends, but excludes scheduled breaks of five or more days and days that a student was on an approved leave of absence. The unearned portion shall be refunded up to the point of time that the amount earned equals 60%. Students who withdraw from the university when the calculated percentage of completion is greater than 60% are not entitled to a refund of any portion of institutional charges.

Refund checks will be made payable to the student regardless who may have paid the fees. Refunds to students who paid by personal check will be delayed until assurance is made that the check is valid. Refunds are not made for graduation or late registration fees.

No refunds will be made to students dropping a course after the first day of class.

Students who register for classes, pay fees, and formally withdraw from school cannot re-register for that term.

Students who attend multiple sessions within the same semester may only qualify for a refund if they withdraw from all classes.

Summer Term Refunds. Due to the varying lengths of courses offered during the summer, refunds are based upon individual course length. Due to the multiple lengths of summer term classes, refunds for withdrawals and canceled classes will be mailed at the end of the semester.

Return Check Policy

The university recognizes students will occasionally write non-sufficient funds checks. When a check is returned by the bank, the Financial Services office will notify the student. The university expects the student to immediately respond to this notice and pay the check plus the applicable service charges.

A service charge of \$30.00 or 5% of the check, whichever is greater, is assessed for returned checks. In addition to this charge, non-sufficient funds checks written for tuition payments will be assessed the late registration fee. Checks returned because of bank errors will be redeposited after written notification is received from the bank and a \$30.00 service charge is paid by the student. No late registration fee is assessed for checks returned because of bank error. Students should request reimbursement of the service charge from their bank.

A stop payment of a check does not constitute a formal written withdrawal and is considered a returned check. Writing a non-sufficient funds check or stopping payment on a check does not cancel registration. Students whose check is returned for non-sufficient funds or who places a stop payment on a check must honor the check and pay the applicable service charges before withdrawing from the university. After honoring a returned or stop payment check and formally withdrawing in the office of Student Affairs, the student will receive a refund, if applicable.

A student whose check is returned for tuition will be dropped from classes. When the check and applicable charges are paid, the student may re-register subject to approval of all instructors for that term. If the check and charges are not paid, the student's account will be placed on "hold" and the student must pay for the future enrollment in cash or cash equivalent for one year. A service charge of \$30 or 5% of the returned check will be charged at the time of the subsequent enrollment.

If the student does not respond to the Financial Services office notice and pay the check and applicable service charges, the student will be removed from the class if the check was written for tuition.

Students with returned checks who do not follow the correct procedures to redeem their checks will have their registration status put on "hold". After complying with the procedure, the "hold" will remain on their account for one year. A registration permit to register must be obtained from Financial Services in order to register. The student must request the lifting of the "hold" after one year. After this year period, the student may request reinstatement of check writing privileges.

Fee Payment by Cash

All payments must be in U.S. currency. Cash payments can be made at the Cashier's Office in Burnett Hall. The Cashier's Office may be relocated in the future. Consult the Business/Finance section of the AASU website.

Fee Payment by Credit Card

Credit cards (VISA and MasterCard) may be used to pay tuition for students. *Partial payments, i.e. part credit card/part cash or check are not accepted. The person whose credit card is being used to pay tuition must be present to sign the charge slip. Credit card payment is available in person (located in Victor Hall) or on the web. No credit card payments will be accepted over the telephone. Credit card payments can be made on S.H.I.P via the web.*

Fee Payment by Check

Checks should be made payable to **Armstrong Atlantic State University** or **AASU** and addressed to **Student Accounts – Tuition Payments, Armstrong Atlantic State University, 11935 Abercorn Street, Savannah, Georgia 31419**. Checks must have a printed bank account number.

The university will not accept any checks in which account numbers are hand-written. Your check and schedule/bill must be presented with payment, mailed with invoice attached when using the drop boxes. ***The total amount due on the schedule/bill (including encumbrances) must be paid in order for the university to accept payment.*** Encumbrances are other debts owed by the student to the university. Only full payments will be accepted. If you are making a partial payment by check and the rest by cash, you must go to the Cashier's Office in Burnett Hall. Students who have financial aid and pay the balance with cash/check must pay their fees to the cashier during regular registration. Students who mail their schedule/invoice and check to the office of Student Accounts cannot be guaranteed enrollment unless their envelope is sent by registered mail and is received by the Student Accounts office by the appropriate deadline.

Checks submitted with an old schedule/bill, without a schedule/bill, check amount less than total fees due, incomplete checks, counter checks, two-party checks, or post-dated checks will be mailed back to the student.

The student's social security number or student identification number should be listed on the check. Only checks drawn on U.S. banks will be accepted.

Do not submit a check that you know will be returned by your bank. Payments for returned checks will be accepted only in cash, cashier's check, or money order.

Students who still owe from previous semesters must pay in cash, money order, or cashier's check in order to have "holds" lifted immediately. If you pay by check, "holds" will remain until the check clears the bank.

Financial Aid Student Payment

Students who have financial aid will have their aid applied directly to their student account. "Excess" checks (a result of financial aid less tuition and other fees) will be available weekly after the third week of classes throughout the term as financial aid is processed.

Students who do not pre-register or do not complete financial aid paperwork on time will of course have their "excess" check delayed. ***In order to receive your "excess" check as soon as possible, you must pre-register and have all financial aid paperwork completed on time.***

Financial Aid students who pre-register, but whose aid does not exceed fees, should submit the remaining payments on registration day. Financial Aid students who register and do not attend classes will have their aid applied and receive a grade. If their charges exceed aid, they will be charged for the unpaid amount. Financial Aid students who register during regular registration should go to the cashier if they still owe fees.

All financial aid students who register through late registration and are owed money will have their "excess" checks mailed to them starting at the end of the third week of classes. Students whose financial aid is not completed prior to registration should be prepared to pay fees themselves and be reimbursed later in the term. Students with financial aid who want to pay fees early with personal funds must pay by the fee payment deadline.

Financial Aid "Excess Checks"

All financial "excess" checks will be mailed to the student's address as listed in the Registrar's Office. (An excess check is the net amount of financial aid less all charges). This mailing will begin at the end of the third week of the term. After the third week, new "excess" checks will be mailed at the end of the following weeks. No excess checks will be released directly to students. Students should ensure that their correct mailing address is on file with the Registrar's Office. It is the student's responsibility to verify and update mailing address via S.H.I.P.

Disbursement of financial aid will be made only if the applicant has completed all requirements for receipt of aid (see Disbursement of Financial Aid).

Student Account Information

The Student Accounts office will no longer release student account information over the telephone. Students should inquire about their account over S.H.I.P. Student account information will be released only if the student appears in person with applicable identification. Required identification will be a picture ID and driver's license with Social Security Number or a Social Security card. This action was taken due to the increase in identity theft and because the caller's identity cannot be verified.

Financial Obligations

Any student delinquent in the payment of any financial obligation to the university will have their grade reports and transcripts of records withheld. Grades and transcripts will not be released, nor will the student be allowed to register at the university until all financial obligations are met. Fees for each semester are to be paid in full at the time of registration.

Brunswick/Liberty Center Financial Policies

Students at the Brunswick Center and Liberty Center follow regular payment guidelines. Payments must be received by Armstrong by published payment deadlines.

Students who participate in advance registration, registration, or late registration may use credit cards (VISA or MasterCard) to pay tuition over the web. Partial payments, i.e., part credit cards/ part cash or check, are not accepted.

Financial Aid Students. If you are an Armstrong Atlantic financial aid student taking classes at Coastal Georgia Community College or Georgia Southern University you will need to list cross-registration CRN on the Brunswick Center registration form.

The student is responsible for:

1. Indicating on your Brunswick Center registration form that you are applying for aid through Armstrong Atlantic. (**NOTE:** Be advised that the hours you enroll in at CGCC or GSU will not be automatically input into Armstrong's system; you **MUST** list the CRN for XREG hours and the total credit hours in CGCC or GSU classes. Your aid file will remain unprocessed for these hours if you neglect this step.)
2. A HOPE transient certificate of eligibility will be sent to the institution you are attending. HOPE will pay/reimburse the cost of tuition for the other institution and disburse the appropriate book allowance to students. Students must contact the other institution's financial aid office for the specific date of disbursement of funds.
3. Students attending CGCC will have transcripts sent to AASU as a matter of Brunswick Center policy. All students attending other institutions must insure that their transcripts are sent to AASU themselves. A delay in this step may cause future HOPE disbursements to be postponed until grades are received and reviewed.

The office of Financial Aid at Armstrong Atlantic may be contacted at 912-344-3266 or 1-800-633-2349. They may also be reached by logging into www.finaid.armstrong.edu. Brunswick Center staff may be contacted at 912-264-7227 or by visiting them at the Hargett Administration Building at Coastal Georgia Community College.

Notification of registration after the start of the term will result in a substantial delay of the process of your financial aid or possible denial of aid.

Refund Policy. Students at the Brunswick Center and Liberty Center follow institutional refund policy. Brunswick Center and Liberty Center students should consult with center staff for specific guidelines and procedures.

Armstrong/Savannah State Exchange Program

A student enrolled at Armstrong or Savannah State, who pays full-time tuition and fees, is eligible to take up to six semester hours at the other institution at no charge. Student total hours cannot exceed maximum allowed at home institution.

Financial Aid

General Information

The Office of Financial Aid is especially concerned with students who need financial assistance to attend Armstrong Atlantic State University. The primary responsibility for financing college education rests with students and their families. Financial aid is available to supplement family contributions and is provided through a combination of sources including scholarships, grants, loans, and part-time employment. Either the Free Application for Federal Student Aid (FAFSA) or the Renewal FAFSA must be used to help determine eligibility for Pell Grants, Federal Supplemental Educational Opportunity Grant (SEOG), and student loans. Family income, assets, number of family members, number in college, and other factors determine eligibility. The university will attempt to assist students with the difference between the total expected family contribution and the cost of attending college. Any student admitted to, or attending, Armstrong Atlantic State University is encouraged to apply for financial aid.

Student financial aid is most frequently awarded to eligible students on the basis of need or merit. Merit is determined by the entity who is providing the money to be awarded (for example, the state of Georgia, Armstrong Atlantic State University, private donors). The federal government determines need based on information in the completed FAFSA through analysis of the data provided by the student's family or, if independent, by the student. This analysis is transmitted to the financial aid office where it is compared with the cost of education. The formula applied is: cost of attendance minus expected family contribution equals need ($COA - EFC = \text{Need}$). If the family contribution is less than the cost of attendance, financial need has been established.

In general, students who apply by the priority deadline will have their aid processed by that term's beginning. Due to the fact that certain funds are limited, the Office of Financial Aid will award its yearly allocation of those funds to as many students as possible who meet the priority deadline and demonstrate the greatest need. Therefore, students are encouraged to apply as early in the year as possible.

The Office of Financial Aid is interested in helping students find ways to finance their education. However, federal and state law heavily regulates the financial aid application and awards process, and as a result the process takes time. At least thirty-percent of Armstrong Atlantic State University students are selected for a process called verification. Armstrong Atlantic's Office of Financial Aid does not know who will be selected at the time students apply for aid. All students should be prepared to supply signed copies of their federal tax documents from the previous year, a completed verification worksheet, and a completed credit/benefits worksheet to the Office of Financial Aid. Students who are not considered independent by the federal government would also need to submit signed copies of their parents' federal tax documents from the previous year. The Office of Financial Aid may also require a number of other documents before aid can be awarded. Please respond quickly and accurately to any and all requests for documentation from the Office of Financial Aid. Requests will be made via the students' AASU email account. This is the Office of Financial Aid's primary form of communication with students. Students are responsible for

obtaining and maintaining their AASU email account. Students are encouraged to check their AASU email on a regular basis.

Only by meeting the priority deadlines can students expect to have funds available at the beginning of the semester. Students who do not meet the deadline may be required to pay their own fees for the semester. Please keep in mind that although we are here to help you, we are not responsible for delays caused by inaccurate or incomplete applications and files.

Mid Year Transfers. If you have attended another institution during the current academic year (June 30 of the current year to July 31 of next year), you must provide this information to the Office of Financial Aid. Aid received at another institution during this same academic year will be deducted from aid eligibility offered at Armstrong Atlantic in accordance with federal regulations.

Application Information

An applicant for student financial aid must:

- be accepted or enrolled at Armstrong Atlantic State University;
- complete and submit a signed FAFSA or Renewal FAFSA to the federal processor. AASU title IV code is 001546;
- students must complete an AASU Summer Application, in addition to the FAFSA, to have aid processed for the summer term.

Students are eligible for financial assistance provided they are making satisfactory academic progress and meet the requirements of the student aid program(s) from which assistance is sought. Federal aid cannot be used to pay for audited classes (Audited courses are courses which are not being taken for credit). Transient students and exchange students are not eligible for aid from AASU, but may seek assistance from their home institution. Those students enrolled in continuing education classes may be eligible for financial assistance through alternative means. Continuing Education students should inquire about this assistance in the Continuing Education Department. Students are required to adhere to all regulations and requirements of the program from which they receive assistance, and to notify the financial aid office of any changes in status that may affect their aid eligibility.

The minimum number of semester hours for which a financial aid recipient may enroll per semester varies with each student aid program. Some require at least 12 hours per semester (full-time status). Many programs require that the student be enrolled at least half-time, taking 6 or more semester hours (For graduate students, 4 hours in Fall and Spring and 3 hours in Summer of graduate level work is considered half-time enrollment).

- You must complete a renewal application or FAFSA to apply for grants, loans, and work-study each year.
- Students should apply on the web.

For detailed information about Armstrong Atlantic's financial aid, visit our web site at www.es.armstrong.edu/finaid. For more federal student aid information call **1.800.433.3243** and request "The Student Guide" from the U.S. Department of Education. For information about state-funded aid, you may visit www.gacollege411.org.

Electronic Renewal Applications. Students who apply via the world wide web will be sent an electronic access code (EAC) to be used at the FAFSA web site (<http://www.fafsa.ed.gov>) to access and complete a renewal application for the coming year.

GSFAPP. Students who are only interested in being considered for a HOPE scholarship may complete the GSFAPP application. GSFAPP applications are available at www.gacollege411.org. Transfer students using GSFAPP to apply must notify the Armstrong Atlantic financial aid office.

Available Information

In accordance with federal regulations governing the University's financial aid programs, certain information is available to prospective and current students, parents and specified other parties. This information is available in the offices listed:

Rights under Family Educational Rights and Privacy Act (FERPA)	Registrar's Office
Types of aid available	Financial Aid Office
Institutional information	
Tuition Rates	Business Office
Refund Policies	Business Office
Return to Title IV Funds Policy	Business Office
Requirements for Withdrawing	Registrar's Office
Accreditation Information	Registrar's Office
Completion/Graduation Rates	Registrar's Office
Campus security reports	Public Safety Office
Athletic program participation rates & financial support data	Athletic Department
Enrollment Verification	Registrar's Office
Student Loan Deferment Information	Registrar's Office
Veteran's Educational Assistance Information	Registrar's Office

Deadlines

March 15	Fall semester priority deadline for submitting the completed and signed FAFSA or Renewal FAFSA to the federal processor.
April 15	Fall semester deadline for submitting all supporting documentation requested by the Office of Financial Aid.
August 1	Spring semester priority deadline for submitting the completed and signed FAFSA or Renewal FAFSA to the federal processor.
September 1	Spring semester deadline for submitting all supporting documentation requested by the Office of Financial Aid.
March 1	Summer semester priority deadline for submitting the completed and signed FAFSA or Renewal FAFSA to the federal processor.
April 1	Summer semester deadline for submitting all supporting documentation requested by the Office of Financial Aid.

Students who miss these deadlines must be prepared to pay their own fees. Students must apply for financial aid every year. Awards are made only for the current year.

Disbursement of Financial Aid

Disbursement of financial aid will be made only if the applicant has completed all requirements for receipt of aid, which includes submission of verification documents, if necessary. Students applying for loan funds must make an acceptance of this award before the Office of Financial Aid will process or disburse such funds. Verification of attendance must be attained for classes before aid is disbursed to the student's account. A student's enrollment in sessions that begin later in a semester may cause a delay of disbursement of aid due to verification of attendance in such classes. Aid offered is based on full-time enrollment status unless otherwise indicated, and may be adjusted depending on hours enrolled. For options on how you'd like to receive your refund, you may contact the Student Accounts Office.

Students who attend off-campus centers are also subject to verification of attendance. Their checks will be mailed after verification of attendance is completed.

Work study funds are earned on an hourly basis and are only paid for work performed. Funds from this program are not available for registration.

Disbursement of Financial Aid for Transient Students with Consortium Agreements

AASU students attending other institutions as transient students may have their aid eligibility based on enrollment at the host institution. Students are required to complete the necessary documentation with the Registrar's Office and the Office of Financial Aid. The students' financial aid will be sent to the host institution unless the student provides the Office of Financial Aid with proof of payment. AASU will still disburse financial aid according to its own schedule. Consortium agreements do not serve as payment to the host institution, nor can AASU defer another institution's fee payment deadline. Students must have all transcripts from the host institutions returned to AASU and posted to their records before any future aid can be disbursed.

Grants

Students are not required to repay these awards.

Federal Pell Grant. Open to eligible undergraduates based on need and enrollment status. Grant awarded is based on full-time enrollment; if a student enrolls in fewer than the number of hours considered full-time, funds will be reduced accordingly.

Federal Supplemental Educational Opportunity Grant (SEOG) This program is open to eligible undergraduate students. Awards are based on need and are available to students who meet published deadlines. This program is awarded on fund availability and first-come, first-served basis.

ACG (Academic Competitiveness Grant). Available to freshmen and sophomores, as defined by the Department of Education, who have graduated from a rigorous high school program. Students must be Pell eligible and enrolled fulltime.

SMART (National Science and Mathematics Access to Retain Talent). Available to juniors and seniors, as defined by the Department of Education, who are majoring in specific areas of study. Students must be Pell eligible and enrolled fulltime.

Leveraging Educational Assistance Program (LEAP). This is a state funded grant for undergraduate, Georgia resident students who demonstrate substantial financial need. This program is awarded on fund availability and first-come, first-served basis.

Employment

Federal College Work Study Program. This federally sponsored program is awarded based on need and availability. Students are awarded a specific dollar amount, and may earn up to this maximum each semester.

Institutional Work Study Program. Students are selected for this program by the heads of the various departments and approved by Armstrong Atlantic's human resources office. Students must be qualified for the available positions.

Students in either program may not exceed nineteen hours of work per week.

Scholarships

Many scholarships awarded on the basis of merit or need (or both) are available to entering freshmen. A scholarship committee makes award decisions during the spring of every year for the next academic year. Academic scholarship application forms are available in the Office of Financial Aid or at www.es.armstrong.edu/finaid. The freshmen applicant deadline for submitting scholarship applications is March 1. The deadline for returning, transfer, and graduate students is May 1.

Scholarships are also awarded by various departments on campus including art, music, and theatre; athletics; biology; chemistry and physics; computer science; dental hygiene; history; mathematical sciences; and radiologic sciences. Students may contact these departments for application procedures.

In addition, notices of scholarships requiring special applications or having different deadlines are posted on the financial aid web site www.es.armstrong.edu/finaid under the heading "Scholarship Bulletin Board" as they become available during the year. Students should check this web site periodically for any new scholarship offerings.

HOPE – Helping Outstanding Pupils Educationally

The state of Georgia rewards exemplary academic performance with tuition scholarships at state universities and colleges.

General Qualifications for Entering Freshman. As entering freshmen, students must possess the following:

- legal residency of Georgia;
- 1993 or later graduation from an eligible Georgia high school;
- grade point average of at least a B, as defined by the HOPE program;
- students graduating HOPE eligible from high schools are subject to a spring term or third term GPA check dependent upon their enrollment.

HOPE Scholarship will be applied towards tuition and HOPE approved mandatory fees. HOPE provides a book allowance of up to \$150.00 per semester. See www.gacollege411.org for triggers that could affect the award HOPE provides. HOPE scholarship does not pay for any increases in fees since 2003-2004 nor will HOPE pay for any institutional charges such as lab fees or other fees not approved by HOPE.

HOPE funds may be applied only to tuition and mandatory fees. Students may renew their scholarships for the sophomore, junior, and senior years. To do so, students must:

- maintain a 3.0 cumulative grade point average for all course work attempted (not just course work completed);
- reapply for the scholarship by completing the FAFSA or, if applicable, the GSFAPP alternate application by the appropriate deadline;
- make satisfactory academic progress.

Second-Chance Opportunity for Students to Regain HOPE. HOPE is a reward for scholastic achievement and an incentive to continue working hard in school. If, after attempting 30 semester hours in a state college or university, students fall below a 3.0 cumulative grade point average, they may continue their sophomore year at their own expense. If they then earn a 3.0 cumulative grade point average at the completion of their 60th or 90th attempted semester hour, they will be given a second chance to receive a HOPE Scholarship for their junior and/or senior year.

Re-entry Students. If a student graduated from high school before the HOPE program began in 1993, or is not academically eligible for the HOPE scholarship upon high school graduation, he or she may be eligible for the HOPE scholarship after attempting 30, 60, or 90 semester hours of study, provided he or she has a 3.0 cumulative grade point average and is a legal resident of Georgia.

Maintaining HOPE. HOPE eligibility is reviewed at the end of every Spring semester (unless you are a part time freshman) and at the end of the semester in which 30, 60, or 90 semester hours have been attempted. "Attempted hours" refers to all hours attempted in a degree program at a postsecondary institution after high school graduation, including classes which you may have dropped or failed as well as learning support classes. A student who has previously lost the HOPE scholarship may regain it at 30, 60 and/or 90 hours. HOPE may not be regained at the Spring semester checkpoint, unless that coincides with a 30, 60 and/or 90 hour checkpoint. HOPE eligibility is limited by students' ATTEMPTED and/or PAID hours. For more information on this limitation, go to www.gacollege411.org. The deadline for HOPE application is the last published date of the term for which the student is seeking payment.

The PROMISE Teacher Scholarship Program. This program provides service forgivable loans to high-achieving students who aspire to be teachers in Georgia public schools. To be eligible, students must have the following:

- legal residency in Georgia;
- minimum cumulative grade point average of 3.0 based on a 4.0 scale;
- academic classification as a junior or senior;
- acceptance in a teacher education program leading to initial certification.

The HOPE Teacher Program. This program provides service forgivable loans to individuals seeking advanced education degrees in critical shortage fields of study. To be eligible, students must have the following:

- legal residency in Georgia or an out-of-state tuition waiver;
- **regular** admission to graduate school in an advanced degree teacher education program leading to initial certification in a critical field. (Please refer to the GSFC web site or www.gacollege411.org for more information about the critical fields.)

Additional information on all HOPE programs may be obtained via the GSFC web site (www.gacollege411.org) or by calling 1.800.505.GSFC(4732).

Note: HOPE Teacher and HOPE Promise are state-funded programs. The aid year for these programs begins summer semester and ends the following spring semester. Applications for these programs are made available by GSFC no later than June and can be found on the GSFC web site. The Office of Financial Aid may not be notified of available funding for these programs until July 1st. These funds may not be available to apply toward tuition and fees by the fee payment deadline. Therefore, students may have to pay their tuition and fees out of pocket and be reimbursed when funding becomes available.

Loans

Please note: Legislative changes may affect the interest rate and/or other loan terms. Check with the financial aid office or lender for more information.

Federal Stafford Loans. Stafford loans are available in two forms:

- **Subsidized:** Need-based. The federal government pays interest as long as students maintain at least half-time enrollment
- **Unsubsidized:** Not need-based. Students are responsible for all interest.

The government limits the amount of money you can borrow under the Federal Stafford loan program.

Stafford Loan Amounts after July 1, 2007

	Dependent Undergraduate	Independent Undergraduate	Graduate Student
0-29 earned hours	\$3,500	\$3,500 Subsidized \$4,000 Unsubsidized	
30-59 earned hours	\$4,500	\$4,500 Subsidized \$4,000 Unsubsidized	\$20,500 each academic year (\$8,500 Subsidized)
60+ earned hours	\$5,500	\$5,500 Subsidized \$5,000 Unsubsidized	
Maximum Total Debt Stafford Loans	\$23,000 as dependent undergraduate	\$46,000 as an independent undergraduate (\$23,000 subsidized)	\$138,500 (\$65,500 subsidized)

The cumulative borrowing limit for both undergraduate and graduate and graduate study is \$138,500.00. AASU does not automatically offer additional unsubsidized loans in your award. All loans must be certified before the end date of the term the student wishes to borrow.

Note: Juniors and seniors must have declared majors and been accepted into a baccalaureate degree program.

Note: Graduate students not regularly admitted into a graduate program or not enrolled for graduate level course work do not qualify for graduate level funding. Students admitted on a limited/provisional basis only qualify for aid for one year.

Students enrolling in Teacher Certification programs must have their program of study verified before funds disburse each term. Some AASU certificate programs are not eligible for assistance at all.

Hour Requirements: Undergraduate students must be enrolled in at least 6 hours to be considered halftime. Regularly admitted Graduate students must be enrolled 4 hours in Fall and Spring and 3 hours Summer to be considered halftime.

First Time Borrowers Who Are First Time College Students. Students **MUST** complete entrance counseling. Please refer to the Financial Aid website for more information concerning entrance counseling.

Federal Parent PLUS Loans. PLUS loans are available to parents of dependent, undergraduate students for amounts not to exceed the students' costs of attendance less financial aid. Information is available on the financial aid website.

PLUS Loans for Graduate or Professional Students. Graduate or professional students are now eligible to borrow under the PLUS Loan Program up to their cost of attendance minus other estimated financial assistance in both the FFEL Program. Students must have applied for their annual loan maximum eligibility under the Federal Subsidized and Unsubsidized Stafford Loan Program before applying for a Graduate/Professional PLUS loan.

Health Field Service Cancelable Loans: Legal residents of the State of Georgia who are formally admitted to and enrolled in an approved program of study may be eligible for service cancelable loans. All service cancelable loans are repaid by practicing in the specified field in the State of Georgia. One calendar year of service repays each academic year of the loan. Applications are available on www.gacollege411.org. To be eligible, a student must meet the following qualifications:

- File the FAFSA
- Be fully accepted into a Health Professions program
- Be making satisfactory academic progress in accordance with AASU's policy
- Complete and submit the Service Cancellation Benefits Application to the Office of Financial Aid

Failure to meet any of the above qualifications will result in your application not being processed. All incomplete applications will be returned to the student.

Georgia Student Finance Authority will determine who will receive these funds. The placement of service cancelable funds on your award letter does not guarantee that you will receive these funds, only that you have applied for them. Once your application has been approved by Georgia Student Finance Authority, you will receive further information from them. By applying for this service cancelable loan you are not eligible to apply for other service cancelable options such as ICAPP. Service cancelable loans are a portion of your Stafford Loan eligibility and are included in your loan limits. These loans are not in addition to the Stafford Loan Program.

Veterans Benefits

Veteran's educational benefits may be used for study at Armstrong Atlantic. Contact the veterans affairs representative in the registrar's/admissions office for specific instructions on application procedures.

Standards of Academic Progress

The Higher Education Act mandates that institutions of higher education establish minimum standards of "satisfactory academic progress" for students receiving financial aid. To receive financial aid at Armstrong Atlantic State University, students must maintain satisfactory grade point averages **and** make satisfactory progress as outlined below. These requirements apply to any grants, loans, or scholarships containing any federal or state funds.

Students are responsible for reading and adhering to Armstrong Atlantic's policy regarding standards of academic progress. Failure to meet the minimum requirements defined by this policy will result in student ineligibility for assistance. Before students can receive aid from any of these programs for a particular year, they must meet the following requirements:

- **Academic Standing.** Students who have earned 60 semester hours and do not have a 2.0 grade point average are not eligible for financial aid.
- **Progress Toward Degree Completion.** Students must make significant progress toward completion of degree requirements in order to receive aid. Armstrong Atlantic State University requires students to successfully complete at least 67% of attempted course work for the prior academic year (fall-spring). This may be calculated by dividing the total number of hours attempted in both fall and spring terms by the total number of hours successfully completed. Grades of W (withdrawal), WF (withdrawal failure), V (audit), F (failure), U (unsatisfactory), NR (not reported), MW (military withdrawal), I (incomplete), and IP (In Progress) are not considered successful course completion.
- **Credit Hour Limit.** Students at Armstrong Atlantic are given a maximum number of credit hours in which to complete their degrees. Students who exceed this limit are not eligible for aid. The credit hour limit allowed for financial aid purposes is 150% of the total number of hours necessary to be awarded a degree. Credit hours attempted both at Armstrong Atlantic and elsewhere are counted toward this limit. If a student has attempted 186 semester hours (150% of average degree requirement) without earning a degree, he or she will no longer be eligible to receive aid. This policy has the greatest effect on students who change their majors; therefore, students planning such a change should give careful consideration to the potential impact on their financial aid. Learning support classes will be counted toward the credit hour limit.
- **Hope Scholarships.** Hope scholars have to meet AASU's standards of academic progress requirements as well as the requirements set forth by HOPE.

Appeal of Aid Suspension and Reinstatement of Aid

Students whose aid is terminated because they failed to meet the above requirements may appeal if they can demonstrate and document mitigating circumstances that affected their academic progress. Forms for this type of appeal are available in the Office of Financial Aid and via the AASU Financial Aid website. Students will be notified of the committee's decision approximately two weeks from the date appeals are submitted.

Students whose aid has been terminated or whose appeal has been denied by the SAP committee may regain eligibility for aid after completing 12 or more semester credit hours with a grade of C or better and are not in violation of any other provision of the Standards of Academic Progress Policy. Students may not use course work completed at other institutions to satisfy the requirement at AASU. These hours will be completed at the student's own expense. Students who have exceeded the 150% limit on attempted hours may not be reinstated eligibility in this manner.

If you have any questions, please contact the Financial Aid Office at 912.344.3266 or www.es.armstrong.edu/finaid. Appeals may be mailed to: AASU Financial Aid Office, SAP Appeal Committee, 11935 Abercorn Street, Savannah, GA 31419-1997. Appeals may also be faxed to 912-344-3448.

Student Services and Organizations

As part of its educational mission, Armstrong Atlantic State University strives for the total development of students. This growth process is enhanced by providing opportunities for social, emotional, cultural, physical, and spiritual development, in addition to intellectual growth. The Division of Student Affairs is committed to providing programs and services in an educational environment which will help students of all ages to adjust to university life and achieve their full potential. In particular, freshmen and transfer students are encouraged to read the section on orientation programs under Student Services.

The university encourages learning through involvement in the residence center, student government, campus organizations, intramurals, and more.

University Housing, Residence Life and Food Service

The Office of Housing and Residence Life provides student-exclusive communities that are apartment-style accommodations designed and managed to support the student's living-learning environment.

The communities of Compass Point, University Crossings, University Terrace, and Terrace II offer apartments with the following amenities:

- Kitchens with full-size appliances.
- Furnished living rooms and private bedrooms.
- Basic cable television, local telephone service, Internet connection, water, sewer, and an electricity allowance are included.
- Parking is included...and a short, convenient walk to classes, Student Recreation Center, Lane Library and Savannah shops and restaurants.

Access to classes, campus recreational facilities, meeting spaces, co-curricular activities and events make the communities the choice for undergraduate and graduate students.

University food service is provided by ARAMARK. Students who choose to live in University Housing are required to purchase a declining balance meal plan. Students on the "declining balance" account are charged for each purchase. The centrally located dining hall provides hot, balanced meals, while students also enjoy Starbucks coffee, sandwiches, snacks, and beverages to go in the Memorial College Center Lobby.

For more information, please visit our website at www.housing.armstrong.edu.

Student Services

Academic Orientation and Advisement. Advisors in the academic orientation and advisement office are available for student consultations. They provide advisement regarding core curricula, transfer course work, transient studies, majors, and career choices. Students may also access a variety of resources in print, via the World Wide Web, and by using a computer-based library of educational and occupational topics. The office of academic orientation and advisement also administers the joint enrichment program for accelerated high school students, and the AASU Student Success courses. Open many evenings until 6:00, the office is located on the second floor of Solms Hall.

Alcohol and Drug Education. The University Counseling Center provides campus alcohol and drug prevention education, as well as services to students with individual concerns about alcohol/drug-related issues including personal assessments, counseling, and/or referral to community treatment programs. Assistance is also offered for other personal issues. They coordinate support group meetings on campus and collaborate with local prevention and treatment facilities. Training is provided for residence hall community advisors and Navigate Armstrong leaders. Classroom instruction is provided upon request of instructors. Resource materials are available.

Bookstore. Armstrong Atlantic's bookstore, located between the Memorial College Center (MCC) and the MCC Annex, provides students with textbooks, school supplies, university

apparel, gifts, and laboratory and studio supplies. Extended hours are posted during the first week of every semester.

Campus Computing Labs. General purpose student computing labs are located in Solms Hall 104, University Hall 112, and Science Hall 129. Each lab provides PC workstations with Internet access, printing capabilities, and a general offering of software applications. Please visit <http://www.cis.armstrong.edu/helpdesk/students/labs.html> for additional information.

Food Services. Campus dining and coffee shop are located in the Memorial College Center and offer cash service as well as meal plans. A daily hot line, salad bar, deli line and pizza stand are open when classes are in session. Pastries, fruit beverages, sandwiches and salads are also available from the coffee shop during and after cafeteria hours.

Career Services. This office provides assistance with all aspects of career development and the job search process. Students in the early stages of career development can obtain assistance in such areas as selecting a major, gathering occupational information, investigating career paths through individualized career advisement and computerized career guidance techniques. Part-time and full-time employment opportunities, along with internship and cooperative education opportunities, are listed in the office of career service's career library and website. Students closer to graduation may take advantage of one-on-one assistance or workshops on topics such as resume writing, interviewing skills, business and social etiquette, dressing for success, and applying to graduate school. Mock interviews are also available to help prepare students and alumni for the job search process. Local, regional, and national job listings, referrals, and on-campus interviewing services are available to students and alumni registered with career services. Two job fairs are held annually, one in the fall, in collaboration with Savannah State University, and one in the spring. All students and alumni are required to register with the career services office via monster trak and become eligible for services. Check out our website at www.sa.armstrong.edu/careerservices for a wealth of information to assist you with your personal and professional development.

University Counseling Center. Services are offered to currently enrolled students at no cost by highly experienced and licensed mental health and substance abuse counselors. Whether setting goals or resolving personal issues, students can be assured that discussions held with professional counselors are strictly confidential. Students may schedule individual appointments or sign up for group workshops at the Counseling Center Office on the first floor of Compass Point.

Disability Services. The Office of Disability Services (ODS) provides reasonable accommodations to students with disabilities at no charge. It is the student's responsibility to self-identify to the Office of Disability Services and to provide complete, up to date documentation regarding the disability. Students with sensory loss, medical disability, mobility impairment, learning disability, head injury, ADD or psychological disabilities that substantially interfere with functioning may be eligible. Documentation regarding the diagnosis of Learning Disability, ADD, psychological disorder, and head injury must be reviewed and approved by the Regents' Center for Learning Disorders. Students with disabilities must meet all university admission requirements and academic standards. Accommodations are determined on an individual basis and may include: extended time on tests, low distraction test room, assistance finding volunteer note takers, books on tape or CD, enlargement of printed materials, use of adaptive equipment and sign language interpreters. Obtaining documentation of the disability and arranging accommodation takes time, so students are urged to contact the ODS in the Division of Student Affairs as soon as they are accepted for admission. Once a student is approved to receive accommodations, Advocacy Letters outlining approved accommodations are provided to the student to share with professors each semester. Adaptive software and equipment is available on campus. Documentation requirements for various disabilities and Disability Services policies and procedures are also available from ODS.

ID Cards. New Armstrong Atlantic ID cards are produced by the Pirate Card Office in room 214 of the Memorial College Center Monday through Thursday when classes are in session. For specific hours of operation, call 927-5357.

International Education. Students from other countries are encouraged to contact the International Education Office for information and materials that will assist with the transition to American higher education. Students from this country interested in opportunities to study abroad may also contact that office, located on the second floor of Gamble Hall.

Lane Library. Named for Mills B. Lane, prominent Savannah-Atlanta Banker, philanthropist, and an early patron of the university, Lane Library was built in 1966 and substantially enlarged in 1975. The building was completely renovated in 2005-2006. The library, through its collections and an array of services, supports the academic programs of the university and the library and information needs of AASU students, faculty and staff.

The library collections include more than 200,000 books, almost 1,100 newspapers, journals, magazines, and other periodical subscriptions, and approximately 6,100 individual audiovisual titles encompassing such media formats as compact discs, videocassettes, DVD's and educational software. Special collections include the University Archives and the Florence Powell Minis Collection, which contains published materials of local history and regional interest and first editions by Conrad Aiken and other Savannah writers.

In addition, through the state-sponsored GALILEO system and through locally selected resources, library users have online access (www.library.armstrong.edu) to over 200 bibliographic and full-text databases of books and journal articles. Most journal articles and books that are not locally available or available electronically can be obtained from other libraries in Georgia and the United States via an interlibrary loan service.

To guide users through the maze of print and electronic sources, reference librarians provide a number of services, including the following: instruction sessions for academic classes on the selection, evaluation, and use of course-related library and information resources; individualized assistance at the reference desk by a professional librarian during most hours of library operation; e-mail reference service (Ask A Librarian) and telephone references service; research consultations, scheduled in advance, for students who desire extended, in-depth assistance with their research.

Off-campus library services for Armstrong Atlantic programs are supported by local libraries and online library services through Lane Library. Off-campus students have access to library resources via the library webpage (<http://library.armstrong.edu>). From the webpage, students have access to the listings of the library's books and media through the link to GIL; bibliographic and full-text databases are available to off-campus, enrolled students through the link to GALILEO and the link to Additional Databases. Off-campus students may request materials that are not available in full text online by using the library's interlibrary loan service.

Math Tutorial Center. Tutorial services are provided on a first-come, first-served basis to a large number of students enrolled in learning support math or college algebra courses. The center is staffed 6-8 hours a day by student tutors and by faculty mentors. The lab is located on the second floor of Solms Hall.

Minority Affairs. The purpose of the Office of Minority Affairs is to provide supportive services to ethnic minority students and assist students in participation in the life of the college. The Office of Minority Affairs provides services in the areas of academic outreach and student development.

Parking. All vehicles driven on campus must display a university parking decal in the front window. All students, faculty, and staff are encouraged to become aware of Armstrong Atlantic's parking regulations. A copy of the regulations may be picked up in the public safety or students affairs offices, and regulations are published in *Students Illustrated*.

Testing. The following state- and nation-wide testing programs are administered by the coordinator for Testing Services: Certified Health Education Specialist Examination (CHES), College-Level Examination Program (CLEP), DANTES Subject Standardized Tests, GRE Subject tests, Independent and Distance Learning Examinations, Measure of Academic Proficiency and Progress (MAPP), Major Field Tests, Medical College Admission Test, Miller Analogies Test, National Board Dental Hygiene Examination, Nurse Entrance Test (NET), Pharmacy College Admission Test, the Regents' Testing Program, and the SAT On-Campus. For information about these and other testing programs, please contact the Testing Services, located in the Memorial College Center.

Veterans. The veterans affairs representative is helpful in advising about certification procedures and services available to veterans.

Volunteer and Service Learning. Located in the Student Affairs, Memorial College Center, this office provides opportunities for experiential education through volunteer community service.

Students may receive academic credit by professors who have made volunteering part of their course requirement. Volunteer work can provide valuable major or career-related experience.

Writing Center. Students in all disciplines may come to the writing center in Gamble Hall for help with their writing. Tutors in the writing center offer individual instruction in basic writing skills and provide guidance in the preparation of essays, reports, and research papers. Writing center staff members not only assist students in core composition courses, but are also available to work with faculty to improve writing across the curriculum. The center is administered by the Department of Languages, Literature, and Philosophy.

Student Activities and Organizations

Cultural Opportunities. Nationally known speakers, contemporary concerts, dances, popular films, exhibits, and performances by outstanding classical and modern artists from around the world complement students' general education. These programs are selected and coordinated by the campus union board. Student dramatic, choral, and instrumental groups, under professional direction, have established distinguished traditions. On-campus offerings, such as the faculty lecture series, broaden knowledge and interest in a non-classroom setting. The thousand-seat Fine Arts Auditorium often hosts performances, area arts groups, and out-of-town troupes such as the National Shakespeare Company.

Intercollegiate Athletics. Armstrong Atlantic is affiliated with the National Collegiate Athletic Association (NCAA) Division II. Athletic scholarships are available to support student-athletes who participate in the intercollegiate program. The men's athletic teams consist of basketball, baseball, golf and tennis. Women's teams include basketball, softball, soccer, tennis, golf and volleyball. Armstrong Atlantic State University is a charter member of the Peach Belt Conference, an 11-school conference consisting of schools from Georgia, North Carolina and South Carolina, Armstrong Atlantic State University, Augusta State University, Clayton State University, Columbus State University, Francis Marion University, Georgia College & State University, Georgia Southwestern State University, Lander University, North Georgia College & State University, UNC Pembroke and USC Aiken).

Recreation and Wellness. The university places high priority on its recreational offerings and provides a wide variety of activities and programming, including intramurals, club sports, informal recreation fitness classes, and wellness education. The Student Recreation Center includes an indoor cycling room; exercise rooms; 2 basketball courts; and a 5200 square foot fitness center. Other indoor on-campus facilities include a pool and a track. Outdoor facilities include tennis courts and intramural fields.

Orientation Programs. Designed to promote the academic and social adjustment of new and transfer students, Navigate Armstrong orientation sessions provide new students with the information, services and support essential to a successful transition into the Armstrong Atlantic community. Attendance at Orientation is required for all incoming new students. Participants in the one-day Navigate Armstrong sessions receive individual attention from student leaders and staff as they acquire first hand experience with academic advising, registration, campus facilities, student activities, and university policies and procedures. The Navigate Armstrong program is a cooperative effort of student leaders and university staff. Competitive selection of student leaders occurs annually during spring semester. Inquiries concerning Navigate Armstrong should be addressed to the Division of Student Affairs. An abbreviated orientation program is scheduled for new students prior to registration for spring and summer semesters. The university also encourages new students to enroll in AASU 1101 - University Studies. In addition to the course content, those enrolled will receive special advising and other services. See listing for AASU 1101 in Course Descriptions.

Student Clubs and Organizations. Armstrong Atlantic State University students have numerous opportunities to develop leadership skills, broaden their social and professional backgrounds, and make significant contributions to the university and the community. Clubs and organizations reflect the natural variety of interests found in a diverse student body:

- **Religious:** Wesley Fellowship; Newman Club; Generation of Faith Ministries; Baptist Collegiate Ministry; Fellowship of Christian Athletes.

- **Greek.** Delta Sigma Theta, Phi Beta Sigma, Kappa Sigma, Alpha Sigma Tau, Sigma Sigma Sigma, Alpha Kappa Alpha, Pi Kappa Alpha, Chi Theta Kappa, Phi Mu Alpha.
- **Professional.** Armstrong Biological Society; American Chemical Society; Student Engineering Society; Armstrong Association of Nursing Students; American Dental Hygiene Association; Medical Technologies Society; Rho Tau (Pre-Physical Therapy); Georgia Association of Educators; The E.B. Twitmyer Society (Psychology); Armstrong Economics Club; Mathematical Association of America; Music Educators National Conference; Radiological Sciences Student Association; National Art Education Association; Physical Therapy Club; The Philosophical Debate Group; Political Science Club; Respiratory Therapy Club; National Student Speech, Language, and Hearing Association; Student Council for Exceptional Children; Association for Computing Machinery; Physics Club; Phi Alpha Delta; Cercle Francais (French Club); Biology Club; Georgia Armstrong Middle Education Students; AASU Health Sciences Student Association.
- **Special Interest:** AASU Astronomy Club; Armstrong Environmental Coalition, Ebony Coalition; Gospel Choir; International Student Organization; College Republicans; American Go Association; Rotaract; Philosophical Debate Group; HOLA; Karate Club; NAACP; College Democrats; Anime Club; Science Fiction/Fantasy Club; Model United Nations Team; Feminist Majority Leadership Alliance; African Caribbean Student Organization; Colleges Against Cancer; History Club; Rugby.
- **Service:** Alpha Phi Omega; Chi Theta Kappa.
- **Activity Groups:** Campus Union Board; Chorus; Masquers; Nick Mamalakis Emerging Leaders; Residential Student Association.
- **Academic Honor Societies:** Honor societies recognize and encourage superior scholarship in many fields of study. Campus chapters include: Alpha Eta (Allied Health); Beta Beta Beta (Biology); Kappa Delta Pi; Phi Alpha Theta (History); Pi Gamma Mu (Social Science); Pi Mu Epsilon (Mathematics); Sigma Tau Delta (English); Sigma Theta Tau (Nursing); Upsilon Pi Epsilon (Computer Science); Joel E. Hildebrand Chemistry Society; Phi Kappa Phi; Omicron Delta Kappa.
- **Other:** Honors Student Organization.

Inquiries concerning any campus club or organization should be addressed to the Office of Student Activities.

Student Government Association. The official governing body of students at Armstrong Atlantic State University, student government assists in formulating a program of student services and activities, allocates student activities fees, strives to express the will of the majority of students, and provides experience in democratic living. All students are automatically members of the SGA and entitled to vote in SGA elections. Qualified students may seek SGA leadership positions by running for office during the spring elections.

Student Publications. Students develop skills in creative writing, editing, reporting, photography, and design by involvement with the *Inkwell* (newspaper) and *Calliope* (literary magazine), both produced by students under the supervision of approved university advisors. All are financed primarily by the student activity fund.

Academic Policies and Programs

Academic Advisement

Armstrong Atlantic State University considers academic advisement to be an essential component of the educational experience. Academic advisors assist students in several areas of their university experience including choosing a major, exploring career options, and selecting courses every semester. While students are ultimately responsible for their own choices, for selection of their academic program, and for meeting university deadlines, Armstrong Atlantic does require each student to meet with an advisor at least once every semester. The vice president and dean of faculty gives overall direction to the advisement program, with appropriate department heads coordinating advisement in their departments. Academic advisement is available as follows:

Office of Academic Orientation and Advisement - 212 Solms Hall.

- All undeclared majors
- Non-degree-seeking students returning to school after a number of years away

Academic Assistance Program - Victor Hall.

- All students currently enrolled in learning support courses
- All students in the 62 Plus program

Departmental Offices

- All students who have declared majors or are enrolled in pre-professional programs should obtain advisement in their departments.

Academic Records

The Registrar's Office maintains official academic records (credit and non-credit) for undergraduate and graduate students at the university. An individual transcript detailing all course work attempted, hours earned, and computation of three GPA's (institutional, transfer, and overall) constitutes the student's permanent academic record. Other student records stored include the admissions application, admission test scores, transcripts from institutions previously attended, recommendation forms, and various data change forms.

Armstrong Atlantic follows the published guidelines established by the American Association of Collegiate Registrars and Admissions Officers (AACRAO) and the Family Education Rights and Privacy Act (FERPA) for record retention and disposition. Armstrong Atlantic publishes policies on the confidentiality of records in the official student handbook, *Students Illustrated*, and in the undergraduate and graduate catalogs.

Academic Renewal for Returning Students

Students who return to college after an absence of five years or longer may be eligible for academic renewal, a policy whereby academic credit for previously completed course work is retained only for courses in which a grade of A, B, C, or S has been earned. Retained grades are not calculated in the academic renewal grade point average; however, for the purpose of designating graduation honors, all course work is considered. To be eligible, students must not have been awarded an associate or bachelor's degree. Students interested in the academic renewal program may contact the Office of Adult Academic Support Services at 912.344.2935.

Armstrong Atlantic State University Academic Standing Policy

The university recognizes four categories of academic standing: good standing, academic warning, academic probation, and academic suspension.

Good Standing: Students are considered to be in good standing if they have maintained or exceeded the required Overall GPA for the hours attempted as noted below.

Semester Hours Attempted (at Armstrong and elsewhere)	Required Overall GPA
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0-20 Attempted Hours	1.5
21-40 Attempted Hours	1.7
41-60 Attempted Hours	1.9
Over 60	2.0

Academic Warning: Students who fall below the required GPA for the hours attempted for the first time are placed on academic warning, but remain in good academic standing with the university.

Academic Probation: Students who fall below the required GPA for the hours attempted for the second time are placed on academic probation.

Students on academic probation who do not achieve the required overall GPA, but earn a 2.0 GPA for the probationary semester, will remain on academic probation for the next semester of attendance.

Academic Suspension: Students on academic probation who neither achieve the required overall GPA nor earn at least a 2.0 GPA during the probationary semester will be placed on academic suspension from the university.

Students suspended for the first time must sit out the next full fifteen-week semester.

Students suspended for the second time must sit out the next two full fifteen-week semesters.

A third academic suspension is final, with the exception that after one year's absence, students may be considered for readmission. Students placed on final suspension who are permitted to re-enroll and fail to achieve the required GPA will be permanently excluded from the university.

Students on suspension may not enroll in Summer or Flex Term sessions. Students wishing to enroll during the suspension period must submit an appeal to the AASU Academic Appeals Committee. The first semester of eligible enrollment following a suspension period is the next full fifteen-week semester (Fall or Spring). Students who wish to return after the required absence must notify the Registrar's Office.

Academic Standing Appeals: Students with extenuating circumstances that have negatively affected their academic performance may file an appeal for earlier readmission through the Dean of Enrollment Services. The deadline for appeals is 2 days before the semester begins. Appeals received after the deadline will be considered only for a subsequent term. Appeals must include transcripts of all work and the nature of extenuating circumstances relating to the academic deficiency. Appeals will be considered on a case-by-case basis. The AASU Academic Appeals Committee will make a recommendation to the president, and the decision of the president is final.

A student admitted/readmitted on appeal is on academic probation and must achieve a minimum of 2.0 for the probationary semester. Failure to do so will result in academic suspension.

Armstrong Atlantic Students Transient Elsewhere

Armstrong Atlantic students may request to take course work at another college or university for a single term by completing a Student Request for Transient Status form. This form requires

approval from a student's department/major advisor prior to submission to the Registrar's Office. Students requesting transient status must have been enrolled at Armstrong Atlantic for the semester immediately prior to the transient term (excluding summer). Grades and quality points earned for these courses will have an effect on the student's overall grade point average at Armstrong Atlantic and are considered in calculating graduation with honors. It is the student's responsibility to contact the other institution to determine admission requirements and registration procedures.

An official transcript from the transient institution at the end of the specified term must be on file at Armstrong Atlantic in order to register for a subsequent term at AASU. If the student does not attend the transient institution, a written enrollment verification indicating non-attendance at that institution is required.

If the student is applying for financial aid at Armstrong Atlantic for the transient term, a copy of the completed Student Request for Transient Status form must also be submitted to the AASU Office of Financial Aid.

Graduating seniors must obtain written permission from their major department head, subject to approval by the Registrar's Office, to be a transient student during their final term before graduation. This includes being transient to complete course work through an independent study program elsewhere. Upon receipt of such permission, students are responsible for assuring that the Armstrong Atlantic Registrar's Office has received official grades from the transient institution prior to awarding of the degree.

Attendance

Control of student attendance at class meetings and the effect of attendance on course grades are left to the discretion of instructors. Students are responsible for knowing everything that is announced, discussed, or lectured upon in class as well as for mastering all assigned reading. Students are also responsible for submitting all assignments, tests, recitations, and unannounced quizzes on time.

Instructors are responsible for informing all classes at the first meeting what constitutes excessive absence in the course. Students are responsible for knowing and complying with attendance regulations in all their courses. Instructors may drop students from any course with a grade of W or WF if, in their judgment, absences have been excessive.

Auditing Courses

Students should request to audit courses during the registration process. Students may not change from audit to credit status or from credit to audit status after the term begins. In place of a grade, the letter V is recorded on the student's transcript for any audited course. Students auditing a course or courses pay regular tuition and fees. Students may not audit learning support courses.

Course and Study Load

The normal course load for full-time students is 12-15 semester hours, plus a course in physical education during the freshmen and sophomore years. Full-time students are those registered for 12 or more hours. Part-time students are registered for fewer than 12 semester hours. Students should plan to spend about six hours in out-of-class preparation per week for each 3-semester hour course. It is recommended that students enrolled in learning support courses limit their course loads to 12 hours.

Enrollment Limits

1. New Students: The number of credit hours for new students will be limited during the first term as follows:
 - Regular admission - limited to 16 credit hours
 - Limited admission - limited to 12 credit hours

2. Currently Enrolled Students: Students placed on Academic Warning or Academic Probation are limited to 13 credit hours.

Classification of Students

Students are invited to participate in web registration based on their academic classification, according to the chart below.

Hours Earned	Classification
1-29	Freshman
30-59	Sophomore
60-89	Junior
90 or more	Senior

Dropping Courses

Students who wish to drop a course after late registration must obtain a drop-add notice in the registrar's office. The notice must be signed by the instructor of the course being dropped and returned by the student to the registrar's office.

A student who drops a course within the first seven days of the term will receive a grade of W for the course. A student who drops a course after the first seven class days and on or before the semester dates listed for mid-term will receive a W or WF at the instructor's discretion. A student may not drop a course without penalty following the semester dates listed for mid-term.* A student is not allowed to drop RGTR 0199 at any time unless extenuating circumstances prevail, and the drop form must be authorized by the Dean of the College of Liberal Arts or a designated representative.

Policy for dropping Learning Support courses:

- Students enrolled in both credit and a required learning support course may not withdraw from the learning support course unless they also withdraw from credit courses carrying three or more semester hours.
- If a student is enrolled in two or more learning support courses and withdraws from one learning support course, the student may remain enrolled in other learning support courses and in credit courses carrying one or two semester credit hours only.
- After the twelfth week of the semester (fifth week for summer semester only), the student will be allowed to remain in the college-level courses if withdrawn from required learning support courses.

**Under extraordinary and compelling circumstances a student may, prior to completion of the course, request a hardship withdrawal through the department head.*

English and Mathematics Placement

During the initial terms of enrollment at Armstrong Atlantic State University, students must enroll in the appropriate sequence of English composition courses until the sequence has been completed and/or the Regents' Test has been passed. Students must not delay this sequence beyond their second semester of attendance. For assistance in identifying the appropriate English composition courses, students should consult advisors in the departments of their declared majors, the admissions office, or the Department of Languages, Literature, and Philosophy. See the Department of Languages, Literature, and Philosophy for further information (or check the department's listing in the catalog).

Placement in mathematics courses is determined by scores on the SAT.

The university reserves the right to place students in appropriate English and mathematics courses in the core curriculum. Diagnostic tests may be administered for this purpose.

Grade Appeals

In accordance with Armstrong Atlantic State University regulations, appeals for a change of grade may be initiated through the head of the appropriate academic department prior to midterm of the semester after the grade was received. Without the approval of the academic standing committee, no change of grade, other than incomplete, may be made later than two calendar semesters following the semester in which the grade was received.

A student who contests a grade will have the following line of appeal:

1. The student will discuss the contested grade with the instructor involved.
2. If the grade dispute remains unresolved, the student will meet with the department head/program director and the instructor. If the grade dispute is with the department head/program director, the student will meet with the dean of the college/school (or designee) and the department head/program director. A "memorandum for the record" will be prepared by the department head (dean or designee) which will include the substance of the conversations during the meeting. The student will receive a copy upon request.
3. If the grade dispute remains unresolved, the student will present his or her appeal in writing to the department head/program director or the dean of the college/school (or designee), as applicable, who will then appoint a review board to hear the appeal. The board will operate according to A-D below. It is expected that the student will initiate this step within 45 days after the grade is posted. If the student plans enrollment in a course for which the course grade being appealed is a prerequisite, see "4" below.
 - a. The review board will consist of the department head/program director or the dean of the college/school (or designee), as applicable, and two members of the department/program, not including the instructor involved. A separate hearing officer shall be appointed by the college/school dean (or designee). When deemed necessary by the college/school dean (or designee), membership may come from outside the department/program.
 - b. The review board shall hear statements from both the student and the instructor involved and will examine documents that are pertinent to the matter under review.
 - c. The review board will hear the grade appeal and present its findings to the dean of the college/school (or designee) within 30 days from the initiation of the appeal.
4. If the student plans enrollment in a course for which the course grade being appealed is a prerequisite, then the following timetable will be met at the first of that semester/term:
 - a. If a grade appeal is not resolved with the instructor concerned, the student will file an appeal in writing with the department head/program director (or the college/school dean or designee if the grade dispute is with the department head/program director). This step will be taken by the first day of classes of the semester/term following the posting of the disputed grade.
 - b. The review board to hear the appeal will be appointed by the third day of the semester. If department/program members are not available to form a review board, the dean of the college/school, in consultation with the department head/program director, will appoint a review board.
 - c. A review board will hear and complete the grade appeal by the fifth day of the semester, and present its findings to the college/school dean through the hearing officer (or the vice president if the dean is a member of the committee).
 - d. If the appeal to the college/school dean is denied, the student will be disenrolled from the course if the student is already enrolled.
5. If the college/school dean denies the appeal, the student may continue the appeal to the vice president and dean of faculty. This appeal must be in writing and must be filed within five days of notification from the college/school dean.
6. Neither the president nor the Board of Regents will accept or consider appeals based on academic grades.

Grading System and Grade Point Average Calculation

Grade	Quality Points per Semester Hour
A (Excellent)	4.0
B (Good)	3.0
C (Satisfactory)	2.0
D (Passing)	1.0
F (Failure)	0.0
W (Withdrew, no penalty)	0.0
WF (Withdrew, failing)	0.0
I (Incomplete)	0.0
IP (In Progress)	0.0
S (Satisfactory)	0.0
U (Unsatisfactory)	0.0
V (Audit, no credit)	0.0
K (Credit by Examination)	0.0
NR (Grade Not Reported)	0.0

Grade Symbols

- # Academic Renewal (forgiveness policy). Course grade not counted in computation of grade point average. Hours earned for grades of A, B, C and S.
- % Learning support grade symbol. Course grade not counted in computation of grade point average or hours earned.
- * College preparatory curriculum. Course grade counted in computation of grade point average, but not in earned hours.

Course Repeat Symbols

- E Course repeated. Course grade excluded from grade point average and hours earned.
- I Course repeated. Course grade included in grade point average and hours earned. (See also Incomplete Grade below.)

The letters S and U may be used for completion of degree requirements other than academic course work (such as student teaching, clinical practice, etc.). WF (Withdrew, Failing) is recorded for any student withdrawing after the mid-term date. Grades received in learning support courses are not computed in the grade point average. Exceptions to this policy must be approved by the dean of the college in which the course is taught and will be approved only on the basis of hardship.

Incomplete Grade

An incomplete grade that has not been removed by the midterm of the following semester is changed to a grade of F unless the instructor recommends an extension in writing, addressed to the appropriate dean.

Grade Point Average Calculation

Three academic grade point averages (GPAs) are displayed on students' transcripts.

Institutional GPA. Determined by dividing the total honor points earned by the total hours attempted on all course work taken at Armstrong Atlantic only.

Transfer GPA. Determined by dividing the total honor points earned by the total hours attempted on all transfer course work taken at other institutions.

Overall GPA. Determined by dividing the total honor points earned by the total hours attempted on all course work taken at Armstrong Atlantic and elsewhere.

A HOPE GPA is calculated for HOPE scholarship recipients and displayed on the Permanent Student Record located on the web. The HOPE GPA includes all attempted hours and may differ from a student's Overall GPA.

Honors

Dean's List. Students enrolled for at least nine semester hours of course work who earn a grade point average of at least 3.6 will be placed on the dean's list. Only course work taken at Armstrong Atlantic will be used in the computation of dean's list honors.

Cum Laude. Students with a grade point average of 3.2 through 3.499 will graduate *cum laude*.

Magna Cum Laude. Students with a grade point average of 3.5 through 3.799 will graduate *magna cum laude*.

Summa Cum Laude. Students with a grade point average of 3.8 through 4.0 will graduate *summa cum laude*.

All work attempted at Armstrong Atlantic and other accredited institutions will be considered in computing graduation honors. Academic honors will not be awarded to second degree recipients unless students specifically request an "award evaluation." All course work is considered for honors.

Overloads and Courses at Other Colleges

Permission to enroll for more than 17 semester hours will be granted by the Registrar's Office under the following conditions.

- Student has earned a 3.0 GPA in the preceding semester; or
- Student has earned a 3.0 Overall GPA; or
- Student requires an extra course in the one or two semesters prior to graduation.

No student will be allowed to register for more than 21 semester hours. Only the dean of the college of a student's major may make exceptions to the conditions outlined above. Students enrolled at Armstrong Atlantic who, at the same time, take courses for credit at other colleges or universities may not transfer such credit to Armstrong, unless written permission from the appropriate dean is obtained.

Withdrawing from the University

Withdrawing from the university means that a student has requested to drop all courses for the current term. A student who finds it necessary to withdraw should begin the withdrawal process in the Division of Student Affairs. The last day to formally withdraw from the university is the published last day of class for the session enrolled. Withdrawals based on military obligations must include copies of supporting military orders.

Formal withdrawal from the university is required to ensure that the student is eligible to return to Armstrong Atlantic at a future date. Any refund to which a student is entitled will be considered on the basis of the withdrawal date. Grading procedures for withdrawing are the same as those listed under "Dropping Courses."

Withdrawal—Involuntary

A student may be administratively withdrawn from the university when in the judgment of the vice president for student affairs and the university physician, if any, and after consultation with the student's parents and personal physician, if any, it is determined that the student suffers from a physical, mental, emotional or psychological health condition which (a) poses a significant danger or threat of physical harm to the student or to the person or property of others; or (b) causes the student to interfere with the rights of other members of the University community, or with the exercise of any proper activities or functions of the university or its personnel, or causes the student

to be unable to meet institutional requirements for admission and continued enrollment, as defined in the student conduct code and other publications of the university.

Except in emergency situations, a student shall, upon request, be accorded an appropriate hearing before a final decision concerning his or her continued enrollment in the university.

Honor Code

All students at Armstrong Atlantic State University must agree to abide by the Honor Code and Code of Conduct. The Honor Code and Code of Conduct may be found in the appendix at the end of this catalog.

Honors Program

Armstrong The Honors Program at Armstrong Atlantic State University has rapidly developed into a vibrant community of student leaders. The program offers talented, motivated students across disciplines a chance to take creative, small classes in the place of general education requirements. It also offers the opportunity to apply intellectual curiosity to independent projects or special major classes. Honors courses reflect the creative, student-centered approach to learning that is central to the program's mission. Classroom experiences in the Honors Program are enhanced by extracurricular opportunities such as field trips, community service projects, study-abroad programs, social gatherings, and trips to regional and national conferences where students present the results of their honors experiences. In sum, the Honors Program embodies the traditional values of a Liberal Arts institution at its best, fosters a commitment to lifelong learning, and serves as a campus testing ground for innovative approaches to teaching and learning.

The program is based in a suite of classrooms and a lounge in Solms Hall, a comfortable facility with a friendly and collegial atmosphere and some of the most powerful computers on campus. Current enrollment in the Honors Program is about 200. A limited number of lucrative scholarships are available for qualified students who meet and maintain high standards of academic performance. For more information and an application form, please contact the Honors Program at 912.344.3242 or jonathan.roberts@armstrong.edu.

The program consists of two parts, honors in the core and the honors project.

Honors in the Core. Honors students complete the honors in the core requirement by earning a B or better in four honors courses, which may include:

- ARTS 2720 - Honors Art History II
- BIOL 1107H/1107A - Honors Principles of Biology I and Lab
- BIOL 1108H/1108A - Honors Principles of Biology II and Lab
- CSCI 1301H - Honors Introduction to Programming Principles
- ECON 2106H - Honors Microeconomics
- ENGL 1102H - Honors Composition II
- ENGL 2100H - Honors Literature and Humanities
- GEOL 2010H - Honors Physical Geology
- HIST 1112H - Honors Civilization II
- HONS 2000 - Honors Topics in Global Perspectives
- HONS 2100 - Honors Topics in Ethics and Values
- MATH 1161H - Honors Calculus I
- PSYC 1101H - Honors Introduction to Psychology

Other honors core curriculum courses may be offered in a given semester as determined by the honors committee.

Honors in the Major. Honors students complete the honors in the major component by satisfying the requirements specified by the major area and approved by the honors committee. These requirements may include a specific course or an independently designed research project, paper, or performance.

Honors Project. Honors students have three options for completing their Honors Project: Honors in the Major, Interdisciplinary Honors Project, and Honors in Service and Leadership. In each case, the student will complete a project approved and supervised by an advisory committee.

Graduation with Honors. Students will graduate with honors by completing Honors in the core and an Honors project, and graduating with at least a 3.2 grade point average. The achievement will be noted on the diploma and the college transcript. Honors program graduates will also receive one of the traditional Latin honors.

Transfer Students. Transfer students may graduate with honors under special conditions that take transferred coursework into consideration. See the director of the Honors Program for more details.

General Degree Requirements

Each student is responsible for fulfilling the requirements of the degree program chosen in accordance with the regulations of the university catalog.

Application for Graduation. Students must pay all fees before degrees will be conferred. Students must submit to the cashier a completed application for graduation form **two semesters before graduation**. Candidates for degrees, unless excused in writing by the president, vice president and dean of faculty, or vice president for student affairs, must attend the graduation exercises at which degrees are to be conferred.

Catalog in Effect. Students will normally graduate under the catalog in effect at the time of their admission to the university. In the College of Health Professions, students will graduate under the catalog in effect at the time of admission or readmission (whichever is more current) to a particular health professions program. In the College of Education, students will graduate under the catalog in effect at the time of admission to the teacher education program. However, Armstrong Atlantic State University reserves the right to change any provision listed in this catalog, including but not limited to academic requirements for graduation, without actual notice to individual students. All new and readmitted students must follow semester requirements.

Course Requirement Exceptions. Exceptions to course requirements for a degree are permitted only with the written approval of the appropriate dean, upon the recommendation of the department head. However, all exceptions to core curriculum requirements must have the approval of the Associate Vice President of Academic Affairs.

Credit Hour Requirements. To qualify for the baccalaureate degree, a student must earn at Armstrong Atlantic at least 30 semester hours of credit applicable toward the degree. Additionally, the student must complete successfully at Armstrong Atlantic at least half of the upper division credits required in the major field of study. For students in teacher education programs, the major field of study is the teaching field. For the associate degree, a student must complete at least 30 semester hours of course work at Armstrong Atlantic State University.

Double Major. Students wishing to receive a double major must satisfy major requirements of both disciplines including all residency and institutional requirements for each major. Only one major will appear on the diploma. Both majors will be designated on the transcript.

Exit Exams. All students must take major field and general education exit examinations.

History and Constitution Requirements. By state law, every student who receives a degree from a school supported by the state of Georgia must demonstrate proficiency in United States history and constitution and in Georgia history and constitution. See area E in the core curriculum, and the section entitled State Requirement in History and Constitution following the core curriculum and Regents' Test information.

Coursework Taken at Other Institutions and Credit by Examination. To apply transfer credit and credit by examination credit toward degree requirements at AASU, students must obtain prior approval from the appropriate department head or dean before enrolling in course work at another institution or signing up for credit by examination. Failure to seek approval places the student at risk of taking course work that may not satisfy degree requirements.

Minimum Grade Point Average. To meet degree requirements, students must earn a grade point average of 2.0 or better in each of the following:

- all work at Armstrong Atlantic;
- overall (all course work attempted excluding repeats);
- all courses in the major field.

Some degrees have higher grade point average requirements. Contact major department for complete details.

Minors. To earn a minor in conjunction with a degree, students must complete all requirements (as specified) at AASU. Specific course requirements for earning a minor are listed under each department.

Physical Education Requirements. All students who are enrolled in degree programs must adhere to the Armstrong Atlantic State University physical education requirements.

Regents' Test. All degree-seeking students must satisfy the Regents' Test requirement. Candidates for a second baccalaureate degree are exempt from the Regents' Test requirement. Refer to the Regents' Testing Program section of this catalog for more details.

Repeating Courses. When a course is repeated, only the last grade earned counts in earned hours requirements, grade point average hours, points and overall grade point average. All course work taken remains on a students' academic records. Students may repeat any course. However, the grade earned in the last attempt will determine the number of quality points assigned for calculation of grade point average.

Second Baccalaureate Degree. A candidate for a second baccalaureate degree from Armstrong Atlantic State University must earn a minimum of 30 additional credit hours and meet all requirements for the degree. The final grade point average for the second baccalaureate degree will be based only on courses taken after completion of the first baccalaureate degree (whether courses were earned at Armstrong Atlantic or at another institution).

Transient Enrollment. AASU students may not be transient to another institution during the term immediately prior to graduation without written approval by the Registrar's Office.

General Education Outcomes

General education outcomes define the intellectual experience that Armstrong Atlantic State University students complete prior to graduation, regardless of their specific degrees or their career choices. These outcomes emphasize the central body of knowledge and skills that define a "college-educated" person and are grounded in the arts, humanities, mathematics, social and natural sciences. They foster a knowledgeable, curious, critical, and reflective frame of mind in every graduate. The Armstrong Atlantic State University general education outcomes encourage the broad enhancement of each person's capabilities and promote the development of skills in communication, problem solving, and lifelong learning needed for individual growth and social improvement. All students must take an exit examination covering those general education outcomes prior to graduation.

The following general education outcomes include elements from both the university core and individual majors:

- A. Demonstrate computer literacy.
- B. Demonstrate effective oral and written communication.
- C. Develop an understanding and appreciation of literature and the arts.
- D. Exhibit knowledge of the history and politics that have shaped diverse societies and cultures.
- E. Exhibit a basic understanding of the sciences and their applications.
- F. Exhibit critical thinking skills and apply problem solving in a variety of situations.
- G. Apply mathematical principles and reasoning across disciplines.

University Core Curriculum

The semester core curriculum at Armstrong Atlantic State University is required of all baccalaureate students. The core recognizes three broad categories of students: non-science majors, science majors, and clinical health majors. Major-specific courses are in Area F of the core and are different for each major. The majors in each classification are as follows:

Non-Science Majors	Science Majors	Clinical Health Majors
Art	Applied Physics	Dental Hygiene
Criminal Justice	Biology	Medical Technology
Economics	Chemistry	Nursing
Education	Computer Science	Radiologic Sciences
English	Mathematics	Respiratory Therapy
Fine Arts	Rehabilitation Sciences	
Health Science	GTREP/RETP (pre-engineering)	
History	Sports Medicine	
Information Technology		
Law and Society		
Liberal Studies		
Music		
Political Science		
Psychology		
Spanish		
Theatre		

Core Curriculum Notes.

- Precalculus is required for majors in applied physics, biology, chemistry, computer science, mathematics, radiologic sciences, and rehabilitation sciences.
- Calculus is required for engineering studies students.
- For non-science majors, the two science courses do not have to be in sequence, and one of the science courses may be a non-lab course.
- Science majors must take a lab science sequence and a specified math course; statistics is required for biology majors; calculus I is required for majors in applied physics, chemistry, computer science, and mathematics; calculus II is required for engineering majors.
- Clinical health majors must take a biology, chemistry, or physics sequence; the third course must be statistics. (See Core Area D, Option IIB).
- If a student who has not yet declared a major is contemplating a science or clinical health major, it is recommended that he or she take the area D for that science or clinical health major.
- The legislative history/constitution requirement can be met by a single course - HIST/POLS 1100.
- A course may be used only once to satisfy a degree requirement in core areas A-E.

Core Area A:

Essential Skills	9 hours
ENGL 1101 or ENGL 1101H - Composition and Rhetoric	3 hours
ENGL 1102 or ENGL 1102H - Composition and Literature	3 hours
One course selected from	
MATH 1001 - Quantitative Skills and Reasoning	3 hours
MATH 1111 - College Algebra	3 hours
MATH 1113 - Pre-calculus Mathematics	
<i>Minimum requirement for applied physics, biology, chemistry, computer science, mathematics, and rehabilitation sciences majors</i>	
MATH 1161 or 1161H - Calculus I	4 hours
<i>Minimum requirement for engineering students</i>	

Core Area B:**Institutional Options 4-5 hours****1. Ethics and Values 2-3 hours**

One course selected from:

CHEM 2600 - Ethical Theories and Moral Issues in the Sciences
 CRJU 2020 - Ethical Theories and Moral Issues in Criminal Justice
 ENGL 2000 - Ethics and Values in Literature
 ETHC 2000 - Interdisciplinary Ethics and Values
 GWST 2101 - Ethics, Values, and Gender
 HIST 2000 - Ethics and Values in History
 HONS 2100 - Honors Topics in Ethics and Values
 PHIL 2251 - Introduction to Ethics and Contemporary Moral Philosophy
 POLS 1200 - Ethical Theories and Moral Issues in Government

2. Global Perspectives 2-3 hours

One course selected from:

ANTH 1150 - Global Perspectives in Anthropology: Peoples of the World
 CHEM 2200 - Science, Technology, and the Modern World
 CRJU 2010 - Universal Justice
 ECON 1150 - Global Economic Problems
 ENGL 2050 - Africa and the Diaspora
 EURO 2000 - European Union
 GEOG 1100 - World Regional Geography
 GEOG 2120 - Cultural Geography
 GWST 2200 - Gender in Global Contexts
 HIST 1111 - Civilization I
 HIST 1112 or HIST 1112H - Civilization II
 HIST 2100 - The African Diaspora
 HLPR 2010 - Culture, Illness, Diagnosis and Treatment
 HONS 2000 - Honors Topics in Global Perspectives
 POLS 1150 - World Politics
 POLS 2290 - Foundations of International Relations
 PSYC 2300 - Global Perspectives in Developmental Psychology
 RELI 2100 - World Religions

Core Area C:**Humanities & Fine Arts 6 hours****1. Literature or Philosophy 3 hours**

One course selected from:

ENGL 2100 or ENGL 2100H - Literature and Humanities
 PHIL 2201 - Introduction to Philosophy
 PHIL 2251 - Introduction to Ethics and Contemporary Moral Philosophy

2. Art, Music or Theatre 3 hours

One course selected from:

ARTS 1100 - Art Appreciation
 ARTS/MUSC 1270 - World Art and Music
 ARTS 2710 - Art History I
 ARTS 2720 - Art History II
 MUSC 1100 - Music Appreciation
 THEA 1100 - Theatre Appreciation
 THEA 1200 - Introduction to Theatre
 THEA 2410 - Oral Interpretation

Core Area D:**Math, Science & Technology****10-11 hours****Option I. Non-Science Majors:**

1. One lab science course selected from: 4 hours
 - BIOL 1107 or 1107H - Principles of Biology I
 - CHEM 1151/1151L - Survey of Chemistry I
 - CHEM 1211 - Principles of Chemistry I (and lab)
 - GEOL 2010H - Honors Physical Geology
 - PHSC 1211/1211L - Physical Environment
 - PHYS 1111/1111L - Introductory Physics I
 - PHYS 2211/2211L - Principles of Physics I
 - SCIE 1212/1212L - Chemical Environment
2. One science course selected from: 3-4 hours
 - ASTR 1010 - Astronomy of the Solar System
 - ASTR 1020 - Stellar and Galactic Astronomy
 - BIOL 1107 or 1107H - Principles of Biology I
 - BIOL 1108 or 1108H - Principles of Biology II
 - BIOL 1120 - The Diversity of Life
 - BIOL 1130 - Human Biology
 - BIOL 1140 - Environmental Biology
 - CHEM 1151/1151L - Survey of Chemistry I
 - CHEM 1152/1152L - Survey of Chemistry II
 - CHEM 1211 - Principles of Chemistry I (and lab)
 - CHEM 1212 (and lab) or CHEM 1212H/1212A - Principles of Chemistry II
 - GEOL 2010 or 2010H - Introduction to Physical Geology
 - PHSC 1211 - Physical Environment
 - PHYS 1111/1111L - Introductory Physics I
 - PHYS 1112/1112L - Introductory Physics II
 - PHYS 2211/2211L - Principles of Physics I
 - PHYS 2212/2212L - Principles of Physics II
 - SCIE 1000 - Introduction to Scientific Inquiry
 - SCIE 1212/1212L - Chemical Environment
3. One course in mathematics, science, or technology chosen from: 3 hours
 - ASTR 1010 - Astronomy of the Solar System
 - ASTR 1020 - Stellar and Galactic Astronomy
 - BIOL 1107 or 1107H - Principles of Biology I
 - BIOL 1108 or 1108H - Principles of Biology II
 - BIOL 1120 - The Diversity of Life
 - BIOL 1130 - Human Biology
 - BIOL 1140 - Environmental Biology
 - CHEM 1151/1151L - Survey of Chemistry I
 - CHEM 1152/1152L -- Survey of Chemistry II
 - CHEM 1211 - Principles of Chemistry I (and lab)
 - CHEM 1212 (and lab) or CHEM 1212H/1212A - Principles of Chemistry II
 - CSCI 1150 - Fundamentals of the Internet and World Wide Web
 - CSCI 1301 or CSCI 1301H - Introduction to Programming Principles
 - GEOL 2010 or GEOL 2010H - Introduction to Physical Geology
 - MATH 1113 - Precalculus Mathematics
 - MATH 1161 or 1161H - Calculus I
 - MATH 1950 - Applied Mathematics for Non-Science Majors
 - MATH 2200 - Elementary Statistics
 - PHSC 1211 - Physical Environment
 - PHYS 1010 - The Physics of Sports

PHYS 1111/1111L - Introductory Physics I
 PHYS 1112/1112L - Introductory Physics II
 PHYS 2211/2211L - Principles of Physics I
 PHYS 2212/2212L - Principles of Physics II
 SCIE 1000 - Introduction to Scientific Inquiry
 SCIE 1212/1212L - Chemical Environment

Option IIA. Science Majors:

1. Laboratory science sequence 8 hours
 BIOL 1107/1108 or 1107H/1108H (and labs) - Principles of Biology I/II
 CHEM 1211/1212 or 1212H (and labs) - Principles of Chemistry I/II
 PHYS 1111/1112 (and labs) - Introductory Physics I/II
 PHYS 2211/2212 (and labs) - Principles of Physics I/II
2. One course in mathematics, science, or technology 3 hours
 MATH 1161 or 1161H - Calculus I
Required for applied physics, chemistry, computer science, and mathematics majors
 MATH 2072 - Calculus II
Required for engineering students
 MATH 2200 - Elementary Statistics
Required for biology and rehabilitation sciences majors

Option IIB. Clinical Health Majors:

1. Laboratory science sequence 8 hours
 BIOL 1107/1108 (and labs) - Principles of Biology I/II
 CHEM 1151/1152 (and labs) - Survey of Chemistry I/II
 CHEM 1211/1212 (and labs) - Principles of Chemistry I/II
 PHYS 1111/1112 (and labs) - Introductory Physics I/II
 PHYS 2211/2212 (and labs) - Principles of Physics I/II
 Or (for nursing majors)
 Two laboratory science courses selected from:
 BIOL 1107 (and lab) - Principles of Biology I
 CHEM 1151 (and lab) - Survey of Chemistry I
 CHEM 1211 (and lab) - Principles of Chemistry I
 PHYS 1111 (and lab) - Introductory Physics I
 PHYS 2211 (and lab) - Principles of Physics I
2. One course in mathematics, science, or technology 3 hours
 MATH 2200 - Elementary Statistics

Core Area E:**Social Sciences****12 hours**

1. **American and Georgia History and Constitution** 3 hours
 HIST/POLS 1100 or 1100H - Political History of America and Georgia
2. **World Civilization** 3 hours
 One course selected from:
 HIST 1111 or 1111H - Civilization I
 HIST 1112 or 1112H - Civilization II
3. **Social Sciences** 3 hours
 One course selected from:
 ANTH 1102 - Introduction to Anthropology
 ECON 2105 - Principles of Macroeconomics
 ECON 2106 - Principles of Microeconomics
 PSYC 1101 or PSYC 1101H - Introduction to Psychology
 SOCI 1101 - Introductory Sociology

4. History or Social Sciences 3 hours

One course selected from:

- AFAS 2000 - Introduction to African American Studies
- ANTH 1102 - Introduction to Anthropology
- ECON 2105 - Principles of Macroeconomics
- ECON 2106 - Principles of Microeconomics
- GEOG 2120 - Cultural Geography
- GWST 1101 - Introduction to Gender and Women's Studies
- HIST 1111 - Civilization I
- HIST 1112 or HIST 1112H - Civilization II
- HIST 2111 - History of America to 1877
- HIST 2112 - History of America since 1865
- POLS 2100 - Introduction to Political Science
- PSYC 1101 or PSYC 1101H - Introduction to Psychology
- SOCI 1101 - Introductory Sociology

Core Area F:**Courses Suitable to the Major 18 hours****Physical Education 3 hours****Regents' Testing Program**

Each institution of the University System of Georgia shall ensure that students obtaining a degree from a System institution possess certain minimum skills of reading and writing, hereinafter called Regents' Writing and Reading Skills. The Regents' Writing and Reading Skills requirement has been developed to help attain this goal. The Regents' Writing and Reading Skills requirement will ensure students have competence, at a minimum Systemwide level, in reading and writing.

Students enrolled in undergraduate degree programs leading to the baccalaureate degree will be required to complete the Regents' Writing and Reading Skills requirement. The Regents' Writing and Reading Skills requirement is not a requirement for an associate of applied science degree or an associate of science degree in an allied health field, although institutions may choose to require it for these degrees. **Armstrong Atlantic State University has chosen to require the test of all undergraduates who have not earned a baccalaureate or higher degree regardless of degree objective.** A student holding a baccalaureate or higher degree from a regionally accredited institution of higher education will not be required to complete the Regents' Writing and Reading Skills requirement in order to receive a degree from a University System institution.

There will be System-wide tests administered in reading and in writing. These tests will be referred to collectively as the Regents' Test. The Regents' Test is designed to provide a method for satisfying the Regents' Writing and Reading Skills requirement. There shall also be two System-mandated courses, one in writing and one in reading, that represent a vehicle for meeting the Regents' Writing and Reading Skills requirement. The formulation and administration of the Regents' Test and the Regents' Writing and Reading Skills requirement shall be as determined by the Chancellor and prescribed in the Academic Affairs Handbook.

All Armstrong Atlantic State University students are expected to take the Regents' Test during their first semester of enrollment. AASU's Automatic Test Registration System will prompt students to sign up for the Regents' Tests before they register for their first semester classes. Students who fail the test are expected to sign up and retake the test every semester until they pass. Students who do not satisfy the Skills requirement by the 45 credit mark will be required to meet with the Regents' Coordinator and to complete designated preparation requirements. Transfer students who do not pass the test by their second semester of enrollment at AASU or by the 45 credit mark -- whichever comes second -- must also meet with the Regents' Coordinator and complete designated preparation requirements.

Testing and Remediation Requirements

1. Students enrolled in undergraduate degree programs leading to the baccalaureate degree shall pass the Regents' Reading Skills and Regents' Writing Skills requirements by 45 hours of credit. Regents' Reading and Writing Skills courses are offered for institutional credit. Students may exempt these courses through examination by passing the Regents' Tests or an approved alternative test in reading comprehension and in writing. Students who have earned 45 credit hours and have not passed or exempted the courses must take the Regents' Skills courses during each subsequent semester of enrollment. Students enrolled in a Regents' Skills course must pass the corresponding Regents' Test in order to receive a passing grade for the course.
2. The following are the specific implementation procedures:
 - a. Students in programs leading to the baccalaureate degree are expected to have satisfied the Regents' Reading and Writing Skills Requirements by the time they complete 45 college-level semester credit hours. Students satisfy the requirements by passing Regents' Reading Skills (RGTR 0198) and Regents' Writing Skills (RGTR 0199) or by exemption.
 - b. These requirements apply regardless of whether the student has taken or passed any other courses, including English courses, or completed any other institutional requirements.
 - c. College-level credit hours include all credit with the exception of institutional credit.
 - d. Students who have earned 45 college-level credit hours and who have not satisfied the requirements will be required to register for the appropriate course(s) the next semester enrolled. The only exception that may be made is for part-time students taking one of the courses and no college-level credit courses.
 - e. Students may exempt RGTR 0198 by scoring at or above specified scores on the following examinations:
 - Regents' Reading Test exemption score: 61
 - SAT Critical Reading exemption score: 510
 - ACT Reading exemption score: 23(SAT or ACT scores must be from a national administration. Scores from institutional SAT or residual ACT tests will not be acceptable for this purpose.)
 - f. Students may exempt RGTE 0199 by scoring at or above specified scores on the following examinations:
 - Regents' Essay Test exemption score: 2
 - College Board Advanced Placement (AP) English Language and Composition Exemption score: 3
 - College Board Advanced Placement (AP) English Literature and Composition exemption score: 3
 - International Baccalaureate (IB) higher-level English exemption score: 4
 - SAT II English Writing exemption score: 650.
 - SAT Reasoning Test, Writing Section, exemption score: 560
3. Students who have earned 45 college-level semester credit hours and have not passed the Regents' Test shall take the appropriate non-degree credit course(s) in remedial reading and/or writing in every semester of attendance until they have passed all components of the test. Students who have failed both parts of the Regents' Test may take the reading and essay portions of the test in separate semesters consistent with their completion of RGTR 0198 or RGTE 0199.
4. Students are expected to take the test(s) their first term of enrollment.
5. Students who are not subject to the remediation requirement may take the test during a semester in which they are not enrolled.
6. Having passed RGTR 0198 and RGTE 0199 shall not be a condition of transfer into an institution. All transferring students from programs leading to the baccalaureate degree within the System shall be subject to all provisions of this policy. Students with 30 or more semester

credit hours transferring from outside of the System or from a System program that does not require the Regents' courses should take the Regents' Tests during their first semester of enrollment in a program leading to the baccalaureate degree unless they have otherwise exempted the courses. Those who have not exempted the courses before their third semester of enrollment are subject to the course requirements.

7. Students entering with AP credit, credit from other advanced placement programs or examinations, and/or joint enrollment credit may take the Regents' Tests during their first two semesters of enrollment. They are not subject to System-mandated course requirements unless they have earned at least 45 hours and been enrolled at least two semesters.
8. Passing or exempting RGTR 0198 or RGTE 0199 is not a requirement for an Associate of Applied Science degree or an Associate of Science degree in an allied health field, although institutions may choose to require the courses for these degrees. **The Regents' Test is a requirement of Armstrong Atlantic State University for all undergraduates who have not earned a baccalaureate or higher degree regardless of degree objective.**
9. The Regents' Reading Test and Regents' Essay Test are to be administered in accordance with the instructions provided in the Regents' Testing Program Administration Manual.
10. Institutions are responsible for enforcing the requirements related to the Regents' Reading Skills and Regents' Writing Skills courses.

Guidelines for Remedial Courses.

1. Students enrolled in a Regents' course must pass the corresponding Regents' Test in order to receive a passing grade for the course.
2. Students not passing the course receive a "U" and must repeat the course until they pass. Those passing receive a grade of "S."
3. Each course carries three hours of institutional credit.
4. The following are the course descriptions:

REGENTS' READING SKILLS (RGTR 0198) The Regents' Reading Skills course is intended to ensure that all graduates of USG institutions possess certain minimum skills in reading comprehension. Students work on improving their comprehension of material drawn from a variety of subject areas (social science, natural science and humanities) with various modes of discourse (exposition, narration and argumentation). Critical thinking and the following four major aspects of reading are emphasized: vocabulary in context, inferential and literal comprehension, and analysis.

REGENTS' WRITING SKILLS (RGTE 0199) The Regents' Writing Skills course is intended to ensure that all graduates of USG institutions possess certain minimum skills in writing. Students learn to evaluate their own writing strengths and weaknesses and work on improving their writing skills so that they are able to write an essay meeting the Regents' criteria.

Special Categories of Students.

1. A student holding a baccalaureate or higher degree from a regionally accredited institution of higher education will not be required to pass RGTR 0198 or RGTE 0199 in order to receive a degree from a University System institution.
2. Each institution may develop special procedures for examining students whose native language is not English. These procedures shall require a formal examination of competence in English. The use of culturally neutral topics, the granting of extended time, and the use of translation dictionaries are permissible accommodations for the essay examination.
1. Each institution shall develop special procedures, in accordance with the description of procedures and requirements (see appended 'Special Administration of the Regents' Test') for examining students with disabilities.
4. Students who failed the Regents' Reading Test before Fall Quarter, 1980, shall not be held to a higher passing standard at a subsequent retaking of the test than was in effect at the time of

their original attempt. All students, regardless of when they entered the system, must pass or exempt the Regents' Skills courses as a requirement for graduation.

5. Students who live out of state may be permitted to have the Regents' Tests administered out of state if they have fulfilled course requirements and follow the procedures outlined in the Regents' Testing Program Administration Manual. (For information, consult the Regents' Test administrator in the Division of Student Affairs.)

Essay Review. Students may request a formal review of failure on the essay component of the Regents' Test if that essay received at least one passing score among the three scores awarded. The review procedure shall be as follows:

1. A student must initiate the review procedure by mid-term of his/her first semester of enrollment after the semester in which the essay was failed. The review must be initiated, however, within one calendar year from the semester in which the failure occurred.
2. Students whose essays are under review and who have earned 45 credit hours must enroll in the Regents' Writing Skills course.
3. The review will be initiated at the campus level, with procedural matters to be determined by the institution. The on-campus review, however, will be conducted by the three faculty members designated by the institution as a review panel. The on-campus review panel may (1) sustain, by majority opinion, the essay's failing score, thus terminating the review process, or (2) recommend, by majority opinion, the re-scoring of the essay by the Regents' Testing Program Office. The student will be notified concerning the results of the on-campus review. A decision by the on-campus review panel to terminate the review process is final.
4. If the on-campus panel recommends re-scoring of the essay, that recommendation will be transmitted in writing, along with the essay, to the office of the System Director of the Regents' Testing Program. The Director will utilize the services of three experienced Regents' essay scorers other than those involved in the original scoring of the essay to review the essay, following normal scoring procedures for the Regents' Essay Test. The decision of the panel on the merits of the essay will be final, thus terminating the review process. The student will be notified through the institution concerning the results of the review.

Health Professions Program Requirement. Before students in health professions programs may enter their last semester, they must have passed the Regents' Test.

Regents' Test Compliance Policy:

The Automatic Test Registration System will indicate to students the appropriate time to take the Regents' Test. Students must attend the test session for which they are scheduled. Compliance will be monitored as a collaborative effort of the Registrar's office and the Regents' Test preparation coordinator. Two forms of enforcement will be instituted:

- Based on the attendance roster, the first time a student fails to attend his or her scheduled test session this student will be dropped from any pre-registered courses and prevented from re-registering by a hold automatically removed during registration.
- If a student fails to attend the scheduled test session a second time OR has more than 45 hours and has not satisfied the Regents' Test requirement, this student will be required to register for the RGTE 0199 and/or RGTR 0198 the subsequent term and will be prevented from pre-registering.

RGTE 0199 and RGTR 0198 attendance will be enforced in the following ways:

1. Any student who does not attend the assigned course will receive a U for the course and will not be allowed to attempt the test.
2. This student will be required to register again for the remediation course(s) the following term.
3. This student will be prevented from pre-registering for other courses and must register during regular registration.

State Requirement In History and Constitution

By state law, every student who receives a diploma from a school supported by the state of Georgia must demonstrate proficiency in United States history and constitution and in Georgia history and constitution. Students at Armstrong Atlantic State University may demonstrate such proficiency in one of the following ways:

- successfully complete HIST/POLS 1100 at Armstrong Atlantic;
- successfully complete a course that equates to HIST/POLS 1100 at another University System of Georgia (USG) institution;
- successfully complete a course (or combination of courses) in American government and history which meets the state requirement at another USG institution;
- successfully complete a course (or combination of courses) in American government and history at a non-USG institution and pass a local test on the Georgia constitution;
- by earning an acceptable score on an institutional or standardized test as follows:
 U.S./Ga. constitution: AP - Government and Politics or CLEP - American Government and pass the AASU test on the Georgia constitution.
 U.S./Ga. history: AP - U.S. History or CLEP - History of the U.S. I or History of the U.S. II

Requirements for Bachelor of Arts and Bachelor of Science Degrees

Requirements for major programs leading to baccalaureate degrees are described in the departmental listings. For baccalaureate degrees, a minimum of 120 semester hours, exclusive of the required physical education course(s), is required for graduation. Exit exams in the major and in general education are also required. All students in baccalaureate programs must complete the 60-hour core curriculum requirement (as listed under University Core Curriculum), along with the 3-hour physical education requirement.

Degree Programs

The degree programs of Armstrong Atlantic State University are presented below by college and department. (For an alphabetical listing by academic subject, see the front of the catalog.) Minor and certificate programs are listed in their sponsoring departments. The university is organized into three colleges and one school, each administered by a dean, and two non-school affiliated departments (military and naval science, listed under Special Programs). The degrees offered by Armstrong Atlantic are as follows:

College of Liberal Arts

Degree

Associate of Arts

Bachelor of Arts in:

Art
 Economics
 English
 English (Communications)
 Gender and Women's Studies
 History
 Law and Society

Music
 Political Science

Department

Interdepartmental

Art, Music, and Theatre
 Economics
 Languages, Literature, and Philosophy
 Languages, Literature, and Philosophy
 College of Liberal Arts
 History
 Criminal Justice, Social and Political
 Science
 Art, Music, and Theatre
 Criminal Justice, Social and Political
 Science

Spanish	Languages, Literature, and Philosophy
Spanish with Teacher Certification (P-12)	Languages, Literature, and Philosophy
Theatre	Art, Music, and Theatre
Bachelor of Fine Arts in Visual Art	Art, Music, and Theatre
Bachelor of Liberal Studies	Liberal Studies
Bachelor of Music Education	Art, Music, and Theatre
Bachelor of Science in:	
Art Education	Art, Music and Theatre
Criminal Justice	Criminal Justice, Social and Political Science
Master of Arts in History	History
Master of Arts in Liberal and Professional Studies	Liberal Studies
Master of Science in Criminal Justice	Criminal Justice, Social and Political Science

College of Science and Technology

Degree

Bachelor of Arts in:	
Chemistry	
Psychology	
Bachelor of Information Technology	
Bachelor of Science in:	
Applied Physics	
Biology	
Chemistry	
Computer Science	
Information Technology - WebBSIT	
Mathematical Sciences	
Mathematical Sciences with Teacher Certification	
Master of Science in Computer Science	

Department

Chemistry and Physics
Psychology
Information Technology
Chemistry and Physics
Biology
Chemistry and Physics
Computer Science
Information Technology
Mathematics
Mathematics
Computer Science

College of Education

Degree

Bachelor of Science in Education in:	
Early Childhood Education (PK-5)	
Middle Grades Education (4-8)	
Health and Physical Education	
Special Education: Cross-Categorical	
Master of Arts in Teaching in:	
Early Childhood Education	
Middle Grades Education	
Special Education	

Department

Early Childhood Education
Middle and Secondary Education
Health and Physical Education
Special and Adult Education
Early Childhood Education
Middle and Secondary Education
Special and Adult Education

Master of Education in:

Adult Education and Community Leadership
 Curriculum and Instruction
 Art
 English
 History
 Mathematics
 Music
 Physical Education
 Science
 Spanish
 Early Childhood Education
 Middle Grades Education
 Special Education
 Behavioral Disorders
 General Special Education
 Learning Disabilities

Special and Adult Education
 Middle and Secondary Education

Early Childhood Education
 Middle and Secondary Education
 Special and Adult Education

Other Degree Programs. The College of Education, working with the College of Liberal Arts and the College of Science and Technology, provides baccalaureate degrees with teacher certification in the secondary fields of art, mathematical sciences, music, and Spanish. See the departmental sections for degree particulars.

College of Health Professions**Degree****Department**

Associate of Science in Dental Hygiene

Dental Hygiene

Bachelor of Health Science

Health Sciences

Bachelor of Science in:

Communication Sciences and Disorders
 Dental Hygiene Education
 Medical Technology
 Nursing
 Radiologic Sciences
 Rehabilitation Sciences
 Respiratory Therapy

Communication Sciences and Disorders
 Dental Hygiene
 Medical Technology
 Nursing
 Radiologic Sciences
 Physical Therapy
 Respiratory Therapy

Master of Health Services Administration

Health Sciences

Master of Public Health

Health Sciences

Master of Science in:

Communication Sciences and Disorders
 Nursing
 Sports Medicine

Communication Sciences and Disorders
 Nursing
 Health Sciences

Doctor of Physical Therapy*

Physical Therapy

**in collaboration with Medical College of Georgia.*

School of Graduate Studies

Philosophy, Mission and Goal

Graduate education is an integral component of Armstrong Atlantic State University. The School of Graduate Studies provides graduate education and applied research experiences for students in selected disciplines. The faculty and students create an atmosphere of academic scholarship and investigation which provides graduates with values and skills in their disciplines.

The goal of graduate education at Armstrong Atlantic State University is to produce graduates with advanced knowledge in their fields so that they are prepared to address issues of significance and provide service to the communities that they serve.

Degrees

Armstrong Atlantic State University is authorized to grant the following graduate degrees:

Master of Arts

- History
- Liberal and Professional Studies
- Teaching
 - Early Childhood Education
 - Middle Grades Education
 - Special Education

Master of Education

- Adult Education and Community Leadership
- Curriculum and Instruction
 - Art
 - English
 - History
 - Mathematics
 - Music
 - Physical Education
 - Science
 - Spanish
- Early Childhood Education
- Middle Grades Education
- Special Education
 - Behavior Disorders
 - General Special Education
 - Learning Disabilities

Master of Health Services Administration

Master of Public Health

Master of Science

- Communication Sciences and Disorders
- Computer Science
- Criminal Justice
- Nursing
- Sports Medicine

Doctor of Physical Therapy*

**in collaboration with Medical College of Georgia.*

Admission to Graduate Study

Graduates of colleges or universities accredited by a regional accrediting association may apply for admission to the School of Graduate Studies. Admission is restricted to those students whose academic records indicate that they can successfully complete graduate work. Please refer to the Armstrong Atlantic State University Graduate Catalog for additional information on admission procedures and requirements. The graduate catalog also contains information on graduate programs, courses, faculty, financial aid opportunities, and academic policies.

Copies of the graduate catalog are available from:
School of Graduate Studies
Armstrong Atlantic State University
Savannah, GA 31419
912/344-2798 or 800/633-2349

College of Education

Patricia B. Wachholz, Dean
Assistant Dean - Vacant

The College of Education will be implementing all of the Georgia Board of Regents Principles for the Preparation of Educators for the Schools during the 2008-2009 academic year. These new standards became effective fall semester 2007. Since this implementation process affects programs of study in each department, it is extremely important to see an advisor to determine how these changes will affect your program of study.

Accreditation

All teacher education programs at Armstrong Atlantic State University are approved by the Georgia Professional Standards Commission and accredited by the National Council for Accreditation of Teacher Education.

Philosophy and Goals

The College of Education offers a variety of degree programs designed to produce prepared, reflective educators committed to excellence in the profession and the learning of all students. All degree programs in the College of Education are guided by specific objectives reflecting university goals. These objectives include providing prospective teachers with the following: proficiency in the content of their chosen teaching fields; learning theory and methodology necessary for successful implementation of classroom plans and procedures; abilities and skills to offer appropriate educational opportunities to students from diverse cultural and economic back-grounds; abilities and skills to enable them to meet the special needs of exceptional children; and a professional and educational atmosphere conducive to the development of the highest qualities of character, commitment, and professional competence. Prepared, reflective educators who exemplify the essentials of professionalism, demonstrate a respect for diversity, recognize the importance of collaboration, value the need for authentic assessment, realize the merit of reflection, and value technologies personify the ideals of the College of Education's conceptual framework.

Organization and Degrees

The College of Education includes the departments of Early Childhood Education; Health and Physical Education; Middle and Secondary Education; and Special and Adult Education. The degrees offered in the College of Education are as follows:

Bachelor of Science in:

- Early Childhood Education (PK-5)
- Health and Physical Education (P-12)
- Middle Grades Education (4-8)
- Special Education: Cross-Categorical

Master of Arts in Teaching in:

- Early Childhood Education
- Middle Grades Education
- Special Education

Master of Education in:

- Adult Education and Community Leadership
- Curriculum and Instruction
- Early Childhood Education
- Middle Grades Education

Special Education in:

- Behavior Disorders
- General Special Education
- Learning Disabilities

The degrees offered in the College of Education in conjunction with the College of Liberal Arts and the College of Science and Technology are as follows:

Bachelor of Arts in:

Spanish with Teacher Certification (P-12)

Bachelor of Music Education (P-12)

Bachelor of Science in:

Mathematical Sciences with Teacher Certification (6-12)

Bachelor of Art Education (P-12)

Special Programs

Brunswick Center. The bachelor of science in education degree, with concentrations in early childhood and in middle grades education, is offered by Armstrong Atlantic State University at Coastal Georgia Community College (CGCC) through the Brunswick Center. The program allows students who earn their associate degree from CGCC to complete their baccalaureate degree in Brunswick. Interested students should contact the director of teacher education or the resident advisor at the Brunswick Center.

Savannah State University Cooperative. Savannah State University cooperates with Armstrong Atlantic State University to offer education courses required by the Board of Regents on the Savannah State University campus. These courses **partially meet certification requirements** for state licensure. Savannah State students can complete their certification requirements through additional coursework offered on the Armstrong Atlantic State University campus. Students interested in these programs should contact the head of the Department of Middle and Secondary Education at Armstrong Atlantic State University.

Policies and Procedures

Academic Advisement. Students wishing to pursue teacher education leading to certification should seek academic advisement in the appropriate department - Early Childhood Education, Health and Physical Education, Middle and Secondary Education, or Special and Adult Education. Students are responsible for obtaining advisement. Although advisors will help students to establish programs of study which must be followed precisely, department head approval is required for all courses on the official program of study form. Program of study forms will be filed in the appropriate departments, with copies provided to students.

Admission to Candidacy in a department within the College of Education. Students wishing to pursue teacher education leading to certification must apply for Admission to Candidacy in a department within the College of Education. Application forms are available in the departmental offices.

Students seeking Admission to Candidacy in a department within the College of Education must meet the standards described in the College of Education Admissions Handbook. The standards of the College of Education are aligned with the standards of the Georgia Professional Standards Commission for certification and include a criminal background check. College of Education standards also incorporate essential functions for teaching and a code of ethics and expected behavior for students in the program.

The general criteria apply to the teacher education programs in the Departments of Early Childhood Education, Middle and Secondary Education, Health and Physical Education, and Special and Adult Education. Each program may have additional discipline-related requirements which are required for admission. Refer to the department sections at the end of the general criteria.

General Admission to Candidacy Requirements:

1. Passed Regents' Exam (*Students already holding baccalaureate degrees from an accredited institution are exempt from the Regents' Test*)
2. Passed GACE Basic Skills Assessment. (*Students earning qualifying scores on the SAT, GRE, CBEST, CLAST, FTCE or ACT may be exempt from this requirement*).
3. Notarized consent form for criminal background check.

4. Signed internship fee notification form.
5. Indication of desirable attitude, character and teaching potential as demonstrated through positive disposition assessment forms.
6. An overall GPA of 2.5 or higher.
7. Successful completion of EDUC 3100 with a grade of “C” or higher and an active LiveText account.

In addition to the criteria above, the following is required for the indicated department or program of study.

Department of Early Childhood Education

1. MATH 1111 – College Algebra, or MATH 1113 – Pre-Calculus, or MATH 1161 – Calculus, with a C or better.
2. Completion of AREA F Education courses with a C or better.

Department of Middle and Secondary Education

1. MATH 1111 – College Algebra, or MATH 1113 – Pre-Calculus, or MATH 1161 – Calculus, with a C or better.
2. Completion of Area F Education courses with a C or better.

***GACE Basic Skills Assessment:** *All students (undergraduate and post-baccalaureate) applying for Admission to Candidacy within the College of Education during and since fall semester 2006 must pass GACE Basic Skills Assessment examination or receive a passing composite score before being admitted.*

Field Experiences. Many courses in the College of Education require students to participate in field experiences. To enroll in these courses students must undergo a criminal background check. Clear criminal background checks are required for work in the school sites. Information about these requirements is provided in each class.

Internship. Internship II, the culminating activity of the professional sequence, is performed in selected off-campus school centers. Completed applications must be submitted to the department head of the respective program one semester prior to the internship semester. School placement is arranged jointly by the university and the participating school system; students receive letters of assignment. Students are required to adhere to established policies and procedures of the cooperating school system in addition to those policies and procedures established by the university. Orientation will be held at the beginning of the semester in which internship is scheduled. The following requirements must be met before students may enroll in internship:

1. Admission to Candidacy in a department within the College of Education.
2. Satisfactory completion of all required field experiences.
3. Completion of all coursework in the degree program with a cumulative 2.5 unrounded grade point average on all courses attempted, and a grade of C or better in all courses in the teaching field, professional sequence, concentration, and related electives.
4. Recommendation by the College of Education department faculty. Students in a secondary field or a P-12 field housed in the College of Liberal Arts, the College of Science and Technology, or the College of Health Professions must also secure a recommendation from the department that houses the major. Positive assessment of dispositions must be completed through the LiveText system.
5. Attempted the GACE Content Area examination.
6. Notarized consent form for criminal background check.
7. Payment of \$250 internship fee.
8. Program of study signed by the student’s advisor indicating completion of all courses.
9. Portfolio review through the LiveText system.

Students who are unsuccessful may apply to intern one additional semester after completing the prescribed program of remediation as outlined by the university supervisor.

Program Completion. Students must complete the university’s approved program for certification within three years following Admission to Candidacy in a department within the College of Education. **If a student does not complete the program in four years, he or she must meet the requirements of the program in effect at that time.** For acceptable completion, each course in the teaching field, professional education sequence concentration, and related fields must be passed with a grade of C or better.

Graduation and Certification. Students are required to submit a completed application for graduation, updated copy of their transcripts, and program of study form to their advisors in the College of Education **two semesters prior to graduating**. Applications will be checked and approved by the appropriate department heads.

To be recommended for a teaching certificate, students must complete the requirements for an approved teacher certification program on an approved program of study, must pass the GACE Basic Skills Assessment and the GACE Content Area examination in the certificate field, and must complete at Armstrong Atlantic State University a majority of the courses in each of the following areas: the professional sequence, the teaching field, and the related field.

Other Requirements

Background Check. Students enrolling in education courses are required to undergo a criminal background check. Placement in school sites requires a clear criminal background check.

Portfolio. Students are required to create portfolios within the LiveText system demonstrating their attainment of program goals and Professional Standards Commission standards. See department heads for specific information and details.

EARLY CHILDHOOD EDUCATION

Faculty

John Hobe, Department Head

Susan Cooke

Elizabeth Crawford

Cindy Jacobs

Wendy Marshall

Linda Ann McCall

Marsha Moore

Patricia Norris-Parsons

Glenda Ogletree

Joan Schwartz

General Information

The Department of Early Childhood Education offers the degree of bachelor of science in early childhood education. For complete requirements for the degree leading to teacher certification at the elementary level, see "Special Programs," "Policies and Procedures," and "Other Requirements" in the College of Education section of this catalog.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EARLY CHILDHOOD EDUCATION

A. General Requirements (Core Areas A, B, C, D, and E) 42 hours

Core Area F 18 hours

EDUC 2110 – Investigating Critical and Contemporary Issues

EDUC 2120 – Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts

EDUC 2130 – Exploring Learning and Teaching

ISCI 2001 - Life/Earth Science

ISCI 2002 - Physical Science

MATH 2008 – Foundations of Numbers and Operations

Physical Education 3 hours

B. Major Field Courses 47 hours

EDUC 3100 - Technology Applications for Teachers

EDUC 3200 - Curriculum, Instruction, and Assessment

EDUC 3300 - Educating Students with Disabilities in the General Education Classroom

ECUG 3040 - Diversity in Childhood and Adolescence

ECUG 3060 - Language and Cognition

ECUG 3071 - Literature and Language Arts

ECUG 3072 - Teaching of Reading

ECUG 3100 - Contemporary Social Issues of the Family
 ECUG 3750 - Internship I – Pre-Student Teaching
 ECUG 4070 - Social Studies
 ECUG 4080 - Life and Physical Science
 ECUG 4090 - Classroom Management
 ECUG 4300 - Diagnosing and Prescribing for Reading Problems
 ECUG 4750 - Internship II – Student Teaching

C. Related Field Courses 13 hours

MATH 3911 - Algorithms and Number Systems: A Laboratory Approach
 MATH 3912 - Geometry and Data Analysis: A Laboratory Approach
 MATH 5911U - Topics in Mathematics for Educators
 PEEC 3200 - Health and Physical Education for the Elementary School Teacher
 ARTS 3200 - Art and the Child
 or
 MUSC 3200 - Music for the Elementary Teacher

Total Semester Hours

123 hours

D. Regents' Test, GACE Basic Skills Assessment, admission to candidacy in the Department of Early Childhood Education, education teaching portfolio, admission to Internship II, attempt GACE content area examinations, criminal background check.

HEALTH AND PHYSICAL EDUCATION

Faculty

Michael Lariscy, Department Head
 Eddie Aenhbacher
 Myra Brown

Lynn Roberts
 Greg Wimer

General Information

The Department of Health and Physical Education offers the degree of bachelor of science in education in health and physical education, as well as a coaching emphasis minor. The department provides a range of academic and service programs in an intellectually, physically, and socially stimulating environment.

The bachelor degree in health and physical education provides the student with a degree leading to teacher certification P-12 in the areas of health and physical education. Students selecting this major should seek advisement in the Department of Health and Physical Education. Provisions for transfer of credits are delineated in the Academic Regulations section of the catalog. Students pursuing this degree should read "Special Programs", "Policies and Procedures", and "Other Requirements" in the College of Education section of this catalog.

In addition, the department provides the physical education courses required of all Armstrong Atlantic students. During the freshman and sophomore years, all students should complete PEBC 2000 (Concepts of Fitness), three semester hours of physical education activity courses, or three semester hours combining activity courses with PEEC 2000 (Safety, First Aid and CPR). Students unable to participate in the regular program must plan an alternative program with the Department Head of Health and Physical Education.

Special Programs

Physical Education Service Program. The department provides a wide variety of offerings emphasizing life-long physical activities; basic skills and appreciation of recreational sports and

activities; and certification in aquatics and safety, first aid and CPR. The department also provides basic instruction in personal health practices and behaviors.

The Community Service Program. Activities designed to appeal to the community and allow access to the campus gymnasias and field facilities enhance the university's relationship with the community and provide an environment of learning and enjoyment for all.

Progress Requirements

Students must complete core requirements and pass the Regents' Test. Conferences with departmental advisors must be scheduled to determine any and all conditions and requirements students must meet in order to complete degree and certification objectives. Students are responsible for initiating and maintaining the advisement process. Students must apply for admission to candidacy with the Department of Health and Physical Education, which requires a 2.5 grade point average, successful scores on the GACE Basic Skills Assessment, positive disposition assessments, and successful completion of EDUC 3100 (with an open LiveText account). Also, students must successfully complete all departmental requirements, including additional major courses, proficiency requirements, and attempt the GACE Content Area examination. Application for graduation must be submitted two semesters before graduation. See the College of Education section of this catalog for complete information.

Emphasis Area

Coaching Emphasis 18 hours

PEAT 2100 - Prevention and Care of Sport Injuries

Two courses selected from: PEEC 3120, PEEC 3130, PEEC 3140, PEEC 3150

Two courses selected from: PEHM 3070, PEEC 3330, PEEC 3340

Two courses selected from: PEHM 3500, PEHM 3700, PEHM 3770, PEHM 3780, PEHM 3800, PEHM 4400

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN HEALTH AND PHYSICAL EDUCATION

A. General Requirements (Core Areas A, B, C, D, and E) 42 hours

Core Area F 18 hours

EDUC 2110 Investigating Critical and Contemporary Issues in Education

EDUC 2120 Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts

EDUC 2130 Exploring Learning and Teaching

PEAT 2100 - Prevention and Care of Sport Injuries

PEHM 2281 - Human Structure and Function I

PEHM 2283 - Kinesiology

PEHM 2500 - Foundations of Physical Education

Physical Education 3 hours

B. Major Field Courses 58 hours

EDUC 3100 – Technology Applications for Teachers

EDUC 3200 – Curriculum, Instruction, and Assessment

EDUC 3300 — Educating Students with Disabilities in the General Education Classroom

PEHM 2701 - Outdoor Team Sports

PEHM 2702 - Indoor Team Sports

PEHM 3000 - Current Health Education Issues

PEHM 3090 – Basic Games, Dance & Rhythmic Activities

PEHM 3500 - Exercise Physiology

PEHM 3700 - Individual and Dual Sports

PEHM 4000 – Fitness Theory and Nutrition

PEHM 4090 – Health Education Topics

PEHM 4100 – Adaptive Physical Education

PEHM 4500 – Management and Operations of Physical Education and Sports Programs
 PEHM 4701 - Elementary School Health and Physical Education Curriculum and Methods
 PEHM 4702 - Middle School Health and Physical Education Curriculum and Methods
 PEHM 4703 - Secondary School Health and Physical Education Curriculum and Methods
 PEHM 4750 - Internship II - Student Teaching

C. Approved Electives **2 hours**

Choose from one of the following –A coaching course; an aquatics course; PEHM 3010

Total Semester Hours **123 hours**

D. Regents' Test, GACE Basic Skills Assessment, admission to candidacy in the Department of Health and Physical Education, education teaching portfolio, admission to Internship II, attempt GACE content area examinations, criminal background check.

MIDDLE AND SECONDARY EDUCATION

Faculty

Michael Mahan, Department Head

Edward Davis

Kenneth Fields

Patrick Hannigan

Marilyn Hutchinson

Brenda Logan

Regina Rahimi

Edward Strauser

Patrick Thomas

Annette Wilson

General Information

The Department of Middle and Secondary Education offers the degree of bachelor of science in education in middle grades education. For complete requirements for degrees leading to teacher certification at the middle and secondary levels, see "Special Programs," "Policies and Procedures," and "Other Requirements" in the College of Education section of this catalog.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN EDUCATION IN MIDDLE GRADE EDUCATION

A. General Requirements (Core Areas A, B, C, D, and E) **42 hours**

Core Area F (Grade of C or better required for all courses in Area F) **18 hours**

EDUC 2110 - Investigating Critical and Contemporary Issues in Education

EDUC 2120 - Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts

EDUC 2130 - Exploring Learning and Teaching

See advisor for three courses that support two areas of concentration in Language Arts, Math, Science, or Social Studies.

Physical Education **3 hours**

B. Major Field Courses **43 hours**

EDUC 3100 Technology Applications

EDUC 3200 Curriculum, Instruction and Assessment

EDUC 3300 Strategies for Diverse Learners

EDUC 3400 Classroom Management

MGSE 3000 Introduction to Middle Level Teaching

MGSE 3110 Nature and Needs of the Developing Adolescent

MGSE 3300 Adolescent Literature

MGSE 3500 Independent Studies of Best Practices and Research in Middle Grades Education

MGSE 3750 Internship I – Pre- Student Teaching

MGSE 4200 Reading and Writing across the Curriculum

MGSE 4750 Internship II -- Student Teaching

Any two of the following four method courses:

MGSE 5300U Content Methods Language Arts

MGSE 5400U Content Methods Social Studies

MGSE 5500U Content Methods Science

MGSE 5600U Content Methods Middle Grades Mathematics

C. Concentration Electives 18 hours
Three (3) advisor-approved upper division courses (3000 level or higher) above the core required for each of two areas of concentration

Total Semester Hours 124 hours

D. Regents' Test, GACE Basic Skills Assessment, Admission to candidacy in the Department of Middle Grades and Secondary Education, education teaching portfolio, admission to Internship II, attempt GACE content area examinations, criminal background check.

SPECIAL AND ADULT EDUCATION

Faculty

Pamela Harwood, Department Head

Joyce Bergin

Beth Childress

Patricia Coberly

Robert Loyd

Lorrie Spencer

General Information

The Department of Special and Adult Education offers a bachelor of science degree in special education: cross-categorical (P-12). Candidates in the cross-categorical program will be eligible for the Georgia teaching certificate in Special Education General Curriculum.

Special Requirements

Special Education: Cross-Categorical. The cross-categorical program begins in the fall of the sophomore year and proceeds in a sequential hierarchy of courses.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN SPECIAL EDUCATION: CROSS-CATEGORICAL

A. General Requirements (Core Areas A, B, C, D, and E) 42 hours
Core Area F 18 hours

Grade of C or better required for all course in Area F

CEUG 1010 - Human Growth and Development

CEUG 2100 - Introduction to Students with Disabilities

SPED 2001 - The Field of Special Education: Past and Future

EDUC 2110 - Investigating Critical and Contemporary Issues

EDUC 2120 - Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts

EDUC 2130 - Exploring Learning and Teaching

Physical Education 3 hours

B. Major Field Courses 61 hours

CEUG 3012 - Language Development: Ages and Stages

EDUC 3100 - Technology Applications for Teachers

EDUC 3200 - Curriculum, Instruction, and Assessment

EDUC 3400 - Classroom Management

SPED 2003 - Curriculum and Educational Practices for Students with Disabilities

SPED 3001 - Technology for the Special Educator

SPED 3006 - Assessment

SPED 3007 - Eligibility and IEP Development

SPED 3009 - Physical and Health Disabilities

SPED 3010 - Constructing Literacy Programs P-12

SPED 3020 - Field Experiences: Grades P-5

SPED 3040 - Field Experiences: Grades 6-8
SPED 3060 - Field Experiences: Grades 9-12
SPED 4002 - Teaching Mathematics to Students with Disabilities
SPED 4003 - Teaching Reading, Spelling, and Written Expression to Students with Disabilities
SPED 4004 - Instructional Strategies in the Content Areas
SPED 4005 - Strategies for Developing Social Skills and Behavioral Controls
SPED 4006 - Planning and Managing the Learning Environment
SPED 4008 - Collaborative Procedures Fostering Inclusion and Transitions
SPED 4750 - Internship II Student Teaching

Total Semester Hours

124 hours

D. Regents' Test, GACE Basic Skills Assessment, attempt GACE content area examinations, admission to candidacy within the Department of Special and Adult Education, benchmark portfolios in the unit assessment system, admission to Internship II, criminal background check.

College of Health Professions

Shelley Conroy, Dean
Barbara Tanenbaum, Interim Assistant Dean

Philosophy and Goals

The College of Health Professions employs innovative teaching strategies to prepare competent, caring, adaptable health care practitioners. College faculty members conduct and apply research to expand health care knowledge and delivery, improving the quality of life of our region's citizens through community and professional service. Through academic excellence the college provides leadership to the region in promoting health and delivering health care.

The College of Health Professions strives to deliver innovative educational programs and services; achieve educational and practical excellence through creative use of traditional and innovative instructional techniques and technology; cultivate professional relationships through interactions among faculty, students, and community; communicate the humanistic values that underlie effective practice; utilize critical thinking to improve both the educational process and service delivery; and emphasize both the acceptance and initiation of change through collaborative partnerships within and without the college.

Organization and Degrees

The College of Health Professions includes the Departments of Communication Sciences and Disorders; Dental Hygiene; Health Sciences; Medical Technology; Nursing; Physical Therapy; Radiologic Sciences; and Respiratory Therapy. The degrees offered in the College of Health Professions are as follows:

Associate in Science in Dental Hygiene

Bachelor of Health Science

Bachelor of Science in:

Communication Sciences and Disorders

Dental Hygiene Education

Medical Technology

Nursing

Radiologic Sciences

Rehabilitation Sciences

Respiratory Therapy

Master of Health Services Administration

Master of Public Health

Master of Science in:

Communication Sciences and Disorders

Nursing

Sports Medicine

Doctor of Physical Therapy (in collaboration with Medical College of Georgia)

Those interested in detailed information on graduate programs should refer to the School of Graduate Studies section of this catalog and to the Armstrong Atlantic State University Graduate Catalog.

Policies and Procedures

Criminal Background Checks. Clinical agencies utilized by the College of Health Professions may require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be unable to attend clinical courses and therefore may be unable to complete their program of study. Any fees or cost associated with background checks and/or drug testing are the responsibility of the student.

Professional Standards for Applicants and Students. All applicants and students in the College of Health Professions must meet and continue to meet the approved professional standards of the college and its programs. No one who jeopardizes the health or well being of a patient, client, coworker, or self, will be accepted into the College of Health Professions or continue as a student in one of the college's programs. To meet the intellectual, physical and social competencies needed for professional requirements, all applicants and students must possess the necessary physical attributes and exhibit qualities of good judgment, mental strength, and emotional stability. Individual programs will inform all applicants in writing of the technical standards related to the professional duties of their disciplines. The faculty of each department shall be responsible for applying the standards for their students and prospective students.

The health care professional's self-presentation is a vital part of the complex relationship among the client, the health care provider, and the health care delivery site. The College of Health Professions reserves the right to limit attire and adornments (such as clothing, jewelry, piercing, tattooing) of the body and its parts (such as hands, hair, face, oral cavity). See the policies of the respective departments for the enforcement of the college-wide policy. In all cases, final appeal may be made to the dean of the college who will appoint an appeals committee.

Limits on Admission and Progress Requirements. There are many more students applying for admission to these programs than we have spaces available. Therefore, **it is important that you contact the program of your choice for advisement as soon as possible.** Neither admission to Armstrong Atlantic State University nor completion of prerequisite courses guarantees your admission to a health professions program. Because each program has its own admission criteria and procedure for admission, students must apply to the particular programs they wish to enter.

No more than two (2) science courses may be repeated, and no one course may be repeated more than once. If a student fails a course a second time, he or she will not be eligible for admission to health programs for which this course is a requirement.

Other Requirements

Health and Insurance. Completed health histories, evidence of health insurance, and evidence of liability (malpractice) insurance are required of students in dental hygiene, medical technology, nursing, physical therapy, radiologic sciences, and respiratory therapy.

COMMUNICATION SCIENCES AND DISORDERS

Faculty

Donna Brooks, Department Head
Maya R. Clark
April W. Garrity

General Information

The Department of Communication and Sciences and Disorders (www.chp.armstrong.edu/commscidis) offers a bachelor of science degree. The degree prepares students for the masters' degree, which is the entry level degree for the profession.

Special Requirements

Criminal Background Checks. Clinical agencies utilized by the Program in Communication Sciences and Disorders may require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be unable to attend clinical courses and therefore may be unable to complete their program of study. Any fees or cost associated with background checks and/or drug testing are the responsibility of the student.

Communication Sciences and Disorders. The communication sciences and disorders course sequence begins in the fall of the sophomore year and proceeds in a sequential hierarchy of courses. Students are required to pass a speech, language, and hearing screening administered by the program

faculty. Students must earn a C or better in the following courses with an overall GPA of 3.0 in these courses: Introduction to Communication Disorders; Phonetics; Anatomy and Physiology of Speech and Hearing Mechanisms. Each student must have a positive endorsement from a member of the communication sciences and disorders faculty based upon established communication sciences and disorders professional conduct standards. Students must have earned a cumulative overall grade point average of 2.5 for acceptance into the communication sciences and disorders program. All students must complete a graduate training program in communication sciences and disorders to be eligible for certification and/or licensure.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMMUNICATION SCIENCES AND DISORDERS

A. General Requirements (Core Areas A, B, C, D.2B, and E)	42 hours
Core Area F	18 hours
CEUG 1010 - Human Growth and Development	
CEUG 2100 - Introduction to Students with Disabilities	
CSCI 1150 - Introduction to Internet & Web	
HSCC 2500 - Health Issues & Resources	
PHSC 1211 - Physical Science	
PHSC 1211L - Physical Science Lab	
HLPR 2010 - Cultural, Illness, Diagnosis, & Treatment	
Physical Education	3 hours
B. Major Field Courses	48 hours
CSDS 1220 - Introduction to Communication Disorders	
CSDS 2230 - Anatomy and Physiology of Speech and Hearing Mechanisms	
CSDS 2250 - Phonetics	
CSDS 3150 - Normal Speech and Language Development	
CSDS 3400 - Speech Science	
CSDS 3410 - Introduction to Audiology	
CSDS 3420 - Language Disorders	
CSDS 3430 - Organically Based Communication Disorders	
CSDS 3450 - Articulation Disorders	
CSDS 4140 - Augmentative & Alternative Communication	
CSDS 4170 - Introduction to Diagnostic Procedures in Speech-Language Pathology	
CSDS 4180 - Directed Observations in Speech-Language Pathology	
CSDS 4190 - Clinical Methods in Speech-Language Pathology	
CSDS 4210 - Senior Seminar	
CSDS 4450 - Practicum in Speech-Language Pathology	
CSDS 4500 - Introduction to Research in Speech-Language Pathology	
C. Related Field Courses	9 hours
PSYC 5060U - Behavior Modification	
GERO 5500U - Survey of Gerontology	
GERO 5510U - Healthy Aging	
D. Electives*	3 hours
<i>* If not taken in area E, substitute PSYC 1101 - General Psychology</i>	

Total Semester Hours

123 hours

E. Regents' Test, Admission to the program, Preservice Portfolio, Current Certification in CPR/First Aid, Criminal Background Check.

DENTAL HYGIENE

Faculty

Suzanne Edenfield, Department Head
Laurie Bryant
Kimberly Coulton

Janice Mengle
Barbara Tanenbaum

Accreditation

The dental hygiene curriculum is approved by the Commission on Dental Accreditation of the American Dental Association.

General Information

The Department of Dental Hygiene offers two degrees: associate in science in dental hygiene, and bachelor of science in dental hygiene education. Dental hygiene programs at Armstrong Atlantic are designed to educate students who will demonstrate the following: competency in clinical skills; respect for the dental team; possession of ethical and professional standards; ability to apply both academic and state-of-the-art technical knowledge gained from their general education, dental hygiene, and biomedical and dental science courses; effective communication skills; and well-developed critical thinking and research skills enhancing an interest in life-long learning and professional improvement.

Associate in Science in Dental Hygiene. Practicing under the supervision of dentists, dental hygienists provide dental health services in private dental offices, civil service positions, industry, and various public health fields. They must pass national and regional or state board examinations for licensure. This curriculum requires a minimum of two academic years of full-time instruction at the collegiate level, which consists of 78 semester hours. Students attend classes, clinics, laboratories, extra-mural rotations, and seminars.

Bachelor of Science in Dental Hygiene Education. The bachelor's degree program is designed for the post-associate degree registered dental hygienist. The program provides additional education to prepare registered dental hygienists to assume key roles in educational and other settings. Students may enter the program on a full or part-time basis. The program includes courses that will enable graduates to be employed in areas such as dental hygiene and dental assisting education, consulting, management, marketing, research, and public health. Students will work with the dental hygiene faculty and participate in the student teaching practica in associate degree classes, clinics, laboratories, and extra-mural facilities.

Special Programs

Armstrong Atlantic/Coastal Georgia Innovative Curriculum. The Department of Dental Hygiene offers a part-time curriculum via distance learning for students who have been formally admitted to the program and reside in the Brunswick service area. Application, admission, requirements, and policies for this program are consistent with the traditional associate degree program. Information and applications for this program can be obtained by contacting the department.

Admission Requirements

Associate in Science in Dental Hygiene. Admission to Armstrong Atlantic State University does not in any way guarantee admission to the associate degree program in dental hygiene. Applicants must first be accepted to the university with regular admission status before the dental hygiene admissions committee evaluates their completed applications to the associate degree program in dental hygiene. See "Limits on Admission" in the College of Health Professions section of this catalog. Students matriculate in the fall semester of every year. Applications for admission must be

completed by the deadline for the fall semester and must include transcripts of all academic work. Please contact the department for application deadline date.

Admission to the associate degree dental hygiene major is on a space-available basis, and meeting requirements does not guarantee admission to the dental hygiene major. The dental hygiene admissions committee determines the most qualified students by using an admission point index system. This system is based upon college grade point average, number of college credits completed, science grade point average, and certification in dental assisting or dental laboratory technology. Special emphasis is placed upon grades earned in CHEM 1010 (or CHEM 1151 and CHEM 1152), BIOL 2081, BIOL 2082, and BIOL 2275 (or their equivalents). Penalty points are incurred for earned grades of D and F. Interviews may be required. The following are additional admission requirements:

- Eligibility for ENGL 1101 and MATH 1111
- Minimum adjusted college grade point average of 2.5
- All items listed under “Special Requirements”

Transfer applicants and those with degrees in other fields must meet the criteria established for admission to the dental hygiene major. Transfer credit will be awarded based upon equivalency of courses.

Upon admission, students must pay a \$100.00 non-refundable deposit to reserve a place in the program. This deposit is applied to first semester matriculation fees.

Bachelor of Science in Dental Hygiene Education. Applicants for the program must be a graduate of an accredited associate degree dental hygiene program and licensed as a registered dental hygienist. Students begin their course of sequenced dental hygiene courses in the fall semester, many of which are web supported. Application for admission must be completed by the deadline date and prior to the beginning of fall semester.

Transfer credits are accepted for courses other than the professional sequence; however, a minimum of 30 semester hours must be earned at Armstrong Atlantic State University for this degree to be awarded from this institution. The office of the registrar will evaluate all transfer credits. The department has a formal admission process separate from the admission process for the university, and application to each must be made separately. Additional admission requirements include the following:

- A minimum 2.5 grade point average on all previous college work. Official transcripts of course work taken at other institutions must be formally requested by the student to be sent to the AASU registrar.
- National board scores submitted to the Department of Dental Hygiene
- Proof of state licensure submitted to the Department of Dental Hygiene
- Applicable items under “Special Requirements”

Special Requirements

Health and Insurance. All students are required to submit completed medical report forms, evidence of health insurance, and evidence of liability (malpractice) insurance prior to participation in clinical experiences.

Legal. The Georgia Board of Dentistry shall have the authority to refuse to grant a license to an applicant who has been convicted of any felony or any crime involving moral turpitude. This law is further defined in 43-11-47 of the *Georgia Board of Dentistry Laws*. Because of the inability of these persons to become or remain registered dental hygienists, persons to whom this law applies may not be admitted into or may be dismissed from the program.

Technical. Minimum physical and communication standards are part of the admission process. Complete technical standards are included in the admissions information packet.

CPR. Students must obtain certification prior to providing patient services in DHYG 1102 and/or entry into the bachelor of science degree program.

Criminal Background Checks. Clinical agencies utilized by the Department of Dental Hygiene may require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be unable to attend clinical courses and therefore may be unable to complete their program of study.

Any fees or cost associated with background checks and/or drug testing are the responsibility of the student.

Progress Requirements

All students must earn a C or better in each dental hygiene course before entering subsequent dental hygiene courses. A grade of D or F will result in students' dismissal from the program.

Students must earn a C or better in each of the required science courses (CHEM 1010 [or CHEM 1151 and CHEM 1152], BIOL 2081, BIOL 2082, BIOL 2275, or their equivalents) that are prerequisite to the 2000-level dental hygiene clinical courses. No more than two science courses may be repeated and no one course may be repeated more than once. If a student fails to earn a C or better in a course a second time, he or she will not be eligible for admission to the dental hygiene program. If a student fails two courses in the dental hygiene major or fails the same course twice in the dental hygiene major, that student is ineligible for readmission to the dental hygiene program. Students must have passed the Regents' Test before entering their last semester, and an overall grade point average of 2.0 is required for graduation.

Challenge Examinations. Challenge examinations for specific dental hygiene subject areas are available in the department. Contact the department for information.

Associate Degree in Dental Hygiene. Students must complete the two-year program of 78 semester hours within four consecutive academic years from the date of initial entry into the program. Students who do not complete the program within this time must apply for readmission (see "Readmission Requirements").

Readmission Requirements

Students must complete readmission applications for both Armstrong Atlantic State University and the Department of Dental Hygiene, and must meet admission and curriculum requirements in effect at time of readmission.

Readmission will be based upon space availability and recommendation by the dental hygiene admissions committee. Students' previous credits must be evaluated at the time of readmission.

Once readmitted, a grade of D or F in a dental hygiene course will result in dismissal and future ineligibility for further readmission to the dental hygiene program.

PROGRAM FOR THE DEGREE OF ASSOCIATE IN SCIENCE IN DENTAL HYGIENE

A. General Requirements	33 hours
ENGL 1101 - Composition I	
ENGL 1102 - Composition II	
MATH 1111 - College Algebra, or MATH 1001 - Quantitative Skills	
CHEM 1010 - Essentials of Chemistry or	
CHEM 1151 and CHEM 1152 - Survey of Chemistry I & II	
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II	
BIOL 2275 - Microorganisms and Disease	
HIST/POLS 1100 - Political History of America and Georgia	
SOCI 1101 - Introductory Sociology	
PSYC 1101 - Introduction to Psychology	
Physical Education	2 hours
B. Major Field Courses	43 hours
DHYG 1100 - Head and Neck Anatomy	
DHYG 1101 - Clinical Dental Hygiene I	
DHYG 1102 - Clinical Dental Hygiene II	
DHYG 1110 - Dental Anatomy	
DHYG 1120 - Dental Roentgenology	
DHYG 1130 - General and Oral Pathology and Oral Histology	

DHYG 1140 - Periodontics
 DHYG 2201 - Clinical Dental Hygiene III
 DHYG 2201L - Clinical Dental Hygiene III Laboratory
 DHYG 2202 - Clinical Dental Hygiene IV and Ethical Decisions
 DHYG 2202L - Clinical Dental Hygiene IV Laboratory
 DHYG 2210 - Pharmacology and Emergency Management
 DHYG 2220 - Dental Materials
 DHYG 2230 - Applied Nutrition
 DHYG 2240 - Preventive Periodontics
 DHYG 2250 - Dental Public Health

Total Semester Hours

78 hours

C. Regents' Test and Exit Exam

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN DENTAL
HYGIENE EDUCATION**

A. General Requirements (Core Areas A, B, C, D.2.B., and E) 42 hours

Core Area F 39 hours

Credit based on valid dental hygiene licensure and passing applicable national, state and/or regional examinations and program specific courses taken as part of the career associate degree at AASU or another accredited dental hygiene program. The 18 hours of area F are included in the 39 hour career block. Area F plus lower level dental hygiene courses equal 39 hours.

Physical Education 3 hours

B. Major Field Courses 21 hours

DHED 3300 - Dental Hygiene Research
 DHED 4400 - Foundations of Dental Hygiene Education
 DHED 4401 - Educational Methods in Dental Hygiene Education I
 DHED 4402 - Educational Methods in Dental Hygiene Education II
 DHED 4403 - Directed and Individual Study
 HSCC 3760 - Environmental and Community Health Issues

One course selected from:

DHED 3310 - Dental Management of Medically Compromised Patients
 DHED 4410 - Advanced Periodontics
 DHED 4490H - Honors Advanced Periodontics

C. Related Field Courses 18 hours

Four courses selected from:

HSCA 4640 - Managed Care Concepts
 PUBH 5550U - Nutrition
 PSYC 3050 - Child Psychology
 PSYC 3800 - Health Psychology
 PSYC 5750U - Psychology of Aging
 HSCC 3760 - Environmental & Community Health Issues

One course selected from:

HSCA 4620 - Principles of Management in Health Service Organizations
 PSYC 3050 - Child Psychology
 DHED 4420 - International Dental Hygiene Perspectives

One course selected from:

GERO 5500U - Survey of Gerontology
 GERO 5510U - Healthy Aging

Total Semester Hours

123 hours

D. Regents' Test and Exit Exams

HEALTH SCIENCES

Faculty

James Streater, Department Head
Joey Crosby, Graduate Coordinator of Health Services Administration
Robert LeFavi, Graduate Coordinator of Sports Medicine
Michael Mink, Graduate Coordinator of Public Health
Alice Adams
David Adams
Janet Buelow
Rod McAdams
Leigh Rich
Bryan Riemann
Richard St. Pierre
Linda Wright

General Information

The overall mission of the Department of Health Sciences is to make available educational opportunities for persons interested in entering a health field or to provide an academic program for experienced health professionals who wish to further their career opportunities.

The curriculum emphasizes a view that health is different from illness and is designed to teach new students and practicing health professionals this difference. The curriculum permits students to earn a baccalaureate degree reflecting expertise in health science while focusing on an applied health-related area. Upon graduation, these health professionals will implement the concepts they have learned and direct the efforts of the public in the promotion, enhancement, and maintenance of health and in the prevention of health problems.

Criminal Background Checks. Clinical agencies utilized by the Department of Health Sciences may require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be unable to attend clinical courses and therefore may be unable to complete their program of study. Any fees or cost associated with background checks and/or drug testing are the responsibility of the student.

Special Programs

Health Sciences Gerontology Certificate Program. The program provides students with a multi-disciplinary background in aging and offers an opportunity to explore aspects of aging relevant to personal interests and career goals. Students who complete the application for admission to the certificate program and return it to the Department of Health Science will be invited to meet with an assigned faculty member to discuss the proposed program of study. A minimum grade of C or better must be earned in each course for the certificate to be awarded on the undergraduate level. The gerontology certificate program consists of six courses (18 semester hours), and all courses listed are pre- or corequisites to GERO 5520U.

Required courses (9 hours):

GERO 5500U - Survey of Gerontology
GERO 5510U - Healthy Aging
GERO 5520U - Gerontology Practicum

Three courses (9 hours) chosen from:

PUBH 5550U - Nutrition
PSYC 5750U - Psychology of Aging
PUBH 5555U - Health and Human Performance
Approved elective course(s)

Admission Requirements

In addition to a completed health sciences program application made to the department, students must seek regular admission to Armstrong Atlantic State University. Students must be eligible for

MATH 1111 or ENGL 1101, and must undergo a formal interview conducted by a health sciences faculty member.

Progress Requirements

Students must earn a grade of C or better in each course in the health science core and emphasis area. Courses may be repeated only once; thus, students failing to earn a C or better in the second attempt will be dismissed from the program.

All students are required to submit evidence of liability insurance and a health assessment prior to beginning their practicum.

Students must complete the degree program within six consecutive years from the date of their initial admission to the major. Students who do not complete the program within this time limit must apply for readmission, meet current criteria for admission, and have their previous credits calculated. Students who are granted readmission must meet course requirements in effect at the time of readmission.

Senior students must successfully complete the bachelor of health science exit exam, as well as the university's general education exit exam, during the last semester before graduation. It is recommended that all bachelor of health science students have current CPR certification at the time of graduation.

Minor

The minor in Health Science requires eighteen (18) semester hours with a grade of C or better in each course. The student will complete the following:

HSCC 2500-Health Issues and Resources

HSCC 3130-Health Policy Issues

HSCC 3140- Epidemiology

Plus three upper level Health Science courses approved by the Head of the Health Sciences department.

PROGRAM FOR THE DEGREE OF BACHELOR OF HEALTH SCIENCE

A. General Requirements (Core Areas A, B, C, D.1., and E) 42 hours

Core Area F 18 hours

HSCC 2200 – Health Communication

HSCC 2300 – Management of Health Information

HSCC 2500 - Health Issues and Resources

RESP 2110 - Medical Terminology

Two courses selected from:

MATH 2200 - Statistics*

ANTH 1102 - Anthropology**

ECON 2105 - Macroeconomics**

PSYC 1101 - Introduction to Psychology**

SOCI 1101 - Sociology**

* If not taken in area D.

** If not taken in area E.

Physical Education 3 hours

B. Major Field Courses 17 hours

HSCC 3100 - Research Methods

HSCC 3130 – Health Policy Issues

HSCC 3140 - Epidemiology

HSCC 4020 - Seminar in Professional Issues

C. Related Field Courses 43 hours**Student will choose one specialty track.****Track One: Health Services Administration**

HSCP 2000 - Ethical Theories/Moral Issues in Health
HSCC 3130 – Health Policy Issues
HSCA 3600 - Financial Management for Health-Related Organizations
HSCA 4201 - Health Care Marketing
HSCA 4600 - Principles of Human Resources Management
HSCA 4610 - Health Care Economics
HSCA 4620 - Principles of Management in Health Services Organizations
HSCA 4640 - Managed Care Concepts
HSCA 4660 – Survey of Health Outcomes
HSCC 4950 - Practicum
GERO 5500U – Survey of Gerontology
MHSA 5500U - Managing Health Professionals
MHSA 5800U - Comparative Health Care Systems

Students must take 9 hours from this list

HSCP 4000 – Independent Study in Health Sciences
GERO 5510U – Healthy Aging
PUBH 5560U – Introduction to International Health
PUBH 5570U – Women and Minority Health Issues
PSYC 5150U – Conflict Resolution
PSYC 5300U – Leadership and Group Dynamics
SPAN 1001 – Elementary Spanish I
SPAN 1002 – Elementary Spanish II
HSCP 3710 – Worksite Wellness and Safety
ECON 2105 – Macroeconomics
ECON 2106 – Microeconomics

Track Two: Long Term Care

HSCA 3600 - Financial Management for Health-Related Organizations
HSCP 3710 - Worksite Wellness and Safety
HSCA 4201 - Health Care Marketing
HSCA 4610 - Health Care Economics
HSCA 4620 - Principles of Management in Health Services Organizations
HSCA 4640 - Managed Care Concepts
HSCA 4650 - Long Term Care Management
HSCA 4901 - Health Science Practicum I
HSCA 4902 - Health Science Practicum II
MHSA 5650U - Seminar in Long Term Care Administration
GERO 5510U - Healthy Aging
PSYC 5200U - Industrial/Organizational Psychology
MHSA 5500U - Managing Health Professionals
PUBH 5580U - Health and Human Development
Electives (9 hours maximum)

Track Three: Public Health

HSCC 3760 - Environmental and Community Health Issues
HSCP 3730 - Health Promotion Theory
HSCP 3740 - Health Promotion Methods
HSCP 3750 - Topics in Public Health
HSCC 4015 – Health Planning
GERO 5500U – Survey of Gerontology
PUBH 5550U – Nutrition

A minimum of 27 semester hours chosen from the following:

GERO 5510U - Healthy Aging
HSCP 2000 - Ethical Theories/Moral Issues in Health
HSCP 3710 - Worksite Wellness and Safety
HSCP 3790 - Health and Fitness Management
HSCP 4000 - Independent Study in Health Sciences
HSCA 4201 - Health Care Marketing
HSCA 4620 - Principles of Management in Health Services Organizations
HSCA 4640 - Managed Care Concepts
HSCC 3130 - Health Policy Issues
HSCC 4950 - Practicum
MHSA 5500U - Managing Health Professionals
PEAT 2100 - Prevention and Care of Sports Injuries
PEHM 2281 - Human Structure and Function I
PEHM 2282 - Human Structure and Function II
PUBH 5555U - Health and Human Performance
PUBH 5560U - Introduction to International Health
PUBH 5565U - Strategies for the Prevention of Chemical Dependency
PUBH 5570U - Women and Minority Health Issues
PUBH 5575U - Health and Sexuality
PUBH 5580U - Health and Human Development
PUBH/SMED 5600U - Healthy Weight Mgmt & Body Comp
PSYC 5150U - Conflict Resolution
PSYC 5200U - Industrial/Organizational Psychology
PSYC 5300U - Leadership and Group Dynamics
SPAN 1001 - Elementary Spanish I
SPAN 1002 - Elementary Spanish II
Electives (9 hours maximum)

Track Four: Associate Degree Nursing, Allied Health

Twenty-four (24) semester hours and electives (or their equivalent) from associate degree programs in nursing or allied health course work may be used towards an emphasis area in the B.H.S. degree program. In addition to these hours, the student must complete the major core as well as twenty-four (24) hours of upper level health science courses which will be determined by the Head of the Health Science Department.

Track Five: Pre-Sports Medicine/Fitness Management

BIOL 2081 - Human Anatomy and Physiology I
BIOL 2082 - Human Anatomy and Physiology II
HSCA 3600 - Financial Management for Health-Related Organizations
HSCP 4030 - Health and Fitness Management
HSCA 4201 - Health Care Marketing
SMED 5005U - Musculoskeletal Basis of Exercise
SMED 5060U - Physiological Foundations of Sport
SMED 5070U - T/M Strength and Conditioning

A minimum of 22 semester hours chosen from the following:

PEAT 2100 - Prevention & Care of Sports Injuries
HSCC 3130 - Health Policy Issues
HSCP 2000 - Ethical Theories/Moral Issues in Health
HSCP 3710 - Worksite Wellness and Safety
HSCP 4000 - Independent Study in Health Science
HSCC 4950 - Practicum
SMED 5015U - Assessment and Evaluation of Musculoskeletal Injuries

SMED 5080 - Performance Evaluation and Ex Test
SMED 5090 - Nutritional Issues in Sports Medicine
PSYC 5150U - Conflict Resolution
PSYC 5200U - Industrial/Organizational Psychology
GERO 5500U - Survey of Gerontology
GERO 5510U - Healthy Aging
PUBH 5550U - Nutrition
PUBH 5555U - Health and Human Performance
PUBH 5565U - Health and Drug Education
PUBH 5575U - Health and Sexuality Education
SMED 5945 - Internship in Sports Medicine
PUBH/SMED 5600U - Healthy Weight Mgmt & Body Comp
PUBH 5580U - Health and Human Development
Electives (9 hours maximum)

MEDICAL TECHNOLOGY

Faculty

Hassan Aziz, Department Head
Lisa Anderson
Michelle Butina

Accreditation Statement

The degree program in medical technology is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) for the period 2004-2011.

General Information

The Department of Medical Technology offers the bachelor of science degree in medical technology (leading to a career in clinical laboratory science) and a certificate in medical technology. Medical technologists perform and/or supervise the testing of blood, urine, spinal fluid, and other body specimens. Applying a knowledge of chemistry, mathematics, and biology, the medical technologist uses both manual and automated techniques to provide diagnostic data to physicians.

During the first two or three years of the four-year program, students complete core curriculum courses in chemistry, biology, mathematics, humanities, and social sciences. The four-semester professional phase starts every fall semester. Courses cover the major laboratory areas (urinalysis, hematology, clinical chemistry, blood banking, microbiology, serology) and are taught on campus. Clinical practicums are provided in the laboratories of St. Joseph's/Candler Health System, and Memorial Health University Medical Center all located in Savannah; Southeast Georgia Regional Medical Center in Statesboro; Medical University of South Carolina and others as necessary. Upon completion of the program, graduates are eligible to take the certification examination of the Board of Registry for Medical Technologists of the American Society of Clinical Pathology, and the clinical laboratory scientist examination of the National Certification Agency for Medical Laboratory Personnel.

Criminal Background Checks. Clinical agencies utilized by the Department of Medical Technology may require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be unable to attend clinical courses and therefore may be unable to complete their program of study. Any fees or cost associated with background checks and/or drug testing are the responsibility of the student.

Special Programs

Post-Baccalaureate Certificate Program

The certificate is awarded to those who have completed a degree in biology, chemistry, microbiology, or related sciences, and to transient students from other institutions affiliated with the program which award the bachelor of science degree. Applicants not wishing to earn a second baccalaureate degree must meet NAACLS academic prerequisites for medical technology. These students will receive a certificate upon completion of the professional course work.

MLT Associate Degree Career Ladder Program

The department offers a Career-Ladder program model to enable certified medical laboratory technicians (MLT) to advance their education. It provides students with a high quality academic and professional environment allowing for the development of their intellectual and manipulative competencies and attainment of professional values and characteristics. The program graduate will be able to satisfy eligibility requirements to sit for and pass a professional certification examination at the "technologist" level, to qualify for employment in a variety of settings, and to progress within clinical laboratory science to education, supervision, or management position. Students in this track must maintain employment at an approved clinical facility while enrolled in the program. A letter of recommendation and support from immediate supervisor is required.

Admission Requirements

The professional phase of the medical technology curriculum begins in the fall semester every year. Students desiring acceptance to the program in medical technology should make application to the department before April 1 for the August class.

Currently enrolled Armstrong Atlantic State University students must also meet the requirements for admission to the medical technology program and apply separately to the department. Transfer students must be accepted to the university with regular admission status. Certified associate degree medical laboratory technicians may receive transfer credit for junior level medical technology courses upon presentation of acceptable certification scores and/or transfer credit, and satisfactory completion of written and/or practical examinations in the professional content areas.

If not currently enrolled at Armstrong Atlantic, students must be accepted into the university with regular admission status. In addition, students should complete an application to the medical technology department, and have official transcripts, any certification scores, and two letters of reference sent to the department. (Score and reference forms are available from the department.) All applicants will be notified by letter of their application status.

Minimum admission requirements are as follows:

- Cumulative grade point average of 2.4 or more
- Completion of required chemistry and biology courses prior to the senior year
- Average of 2.5 or better in science courses (biology and chemistry), and no more than one such course with a grade of D
- Satisfactory completion of Regents' Test

Special Requirements

Health and Insurance. All students accepted into the academic program are required to submit complete health history forms, evidence of health insurance, and evidence of liability (malpractice) insurance prior to participation in clinical experiences.

Transportation. Students are responsible for their own transportation to and from the clinical sites and are required to adhere to arranged hospital time schedules. Current requirements may be found in the latest medical technology application brochure.

Progress Requirements

Students must earn a C or better in each medical technology course. A student may repeat a single medical technology course only one time (at the next offering, provided space is available).

Students who fail to earn a C or better in a repeated medical technology course, or who fail to earn a C in a subsequent medical technology course, will be dismissed from the program with no possibility of readmission.

Students must maintain an overall adjusted grade point average of 2.0 or higher. A student who falls below this will be placed on suspension from the program for one semester. If the student's grade point average is not raised by the end of the next semester, the student will be dismissed from the program.

Students must complete the professional course work within three consecutive years from the date of initial admission to the medical technology degree program.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

A. General Requirements (Core Areas A, B, C, D.2.A., and E)	42 hours
Core Area F	18 hours
BIOL 1107 - Principles of Biology I	
CHEM 2101 - Organic Chemistry I	
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II	
Other approved courses (e.g., biology, chemistry, computer science)	
Physical Education	3 hours
B. Major Field Courses	54 hours
MEDT 3100 - Urinalysis and Body Fluids	
MEDT 3200 - Clinical Bacteriology	
MEDT 3300 - Clinical Hematology and Hemostasis	
MEDT 3400 - Clinical Immunohematology	
MEDT 3500 - Clinical Chemistry	
MEDT 3600 - Clinical Laboratory Methodologies	
MEDT 3700 - Clinical Immunology and Molecular Diagnostics	
MEDT 3800 - Clinical Microbiology	
MEDT 4110 - Phlebotomy Practicum	
MEDT 4210 - Clinical Microbiology Practicum	
MEDT 4310 - Clinical Hematology Practicum	
MEDT 4410 - Clinical Immunohematology Practicum	
MEDT 4510 - Clinical Chemistry Practicum	
MEDT 4600 - Clinical Pathways & Critical Decision Making	
MEDT 4610 - Urinalysis Practicum	
MEDT 4710 - Clinical Immunoserology Practicum	
MEDT 4900 - Laboratory Management and Education	
C. Related Field Courses	6 hours
BIOL 2010 - Microbiology	
HLPR 2000 - Research in the Health Professions	

Total Semester Hours

123 hours

D. Regents' Test and Exit Exam

CURRICULUM FOR THE CERTIFICATE PROGRAM IN MEDICAL TECHNOLOGY

B. Major Field Courses	54 hours
MEDT 3100 - Urinalysis and Body Fluids	
MEDT 3200 - Clinical Bacteriology	
MEDT 3300 - Clinical Hematology and Hemostasis	
MEDT 3400 - Clinical Immunohematology	
MEDT 3500 - Clinical Chemistry	
MEDT 3600 - Clinical Laboratory Methodologies	
MEDT 3700 - Clinical Immunology and Molecular Diagnostics	

MEDT 3800 - Clinical Microbiology	
MEDT 4110 - Phlebotomy Practicum	
MEDT 4210 - Clinical Microbiology Practicum	
MEDT 4310 - Clinical Hematology Practicum	
MEDT 4410 - Clinical Immunohematology Practicum	
MEDT 4510 - Clinical Chemistry Practicum	
MEDT 4600 - Clinical Pathways & Critical Decision Making	
MEDT 4610 - Urinalysis Practicum	
MEDT 4710 - Clinical Immunoserology Practicum	
MEDT 4900 - Laboratory Management and Education	
C. Related Field Courses	8 hours
BIOL 2010 - Microbiology	
CHEM 2101 - Organic Chemistry	
Total Semester Hours	62 hours

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY, MLT OPTION

A. General Requirements (Core Areas A, B, C, D.2.A., and E)	42 hours
Core Area F	18 hours
BIOL 1107 - Principles of Biology I	
CHEM 2101 - Organic Chemistry I	
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II	
Other approved courses (e.g., biology, chemistry, computer science)	
Physical Education	3 hours
B. Major Field Courses	48 hours
MEDT 3110 - Urinalysis and Body Fluids	
MEDT 3210 - Clinical Bacteriology	
MEDT 3310 - Clinical Hematology and Hemostasis	
MEDT 3410 - Clinical Immunohematology	
MEDT 3510 - Clinical Chemistry	
MEDT 3610 - Clinical Laboratory Methodologies	
MEDT 3710 - Clinical Immunology and Molecular Diagnostics	
MEDT 3810 - Clinical Microbiology	
MEDT 4110 - Phlebotomy Practicum	
MEDT 4210 - Clinical Microbiology Practicum	
MEDT 4310 - Clinical Hematology Practicum	
MEDT 4410 - Clinical Immunohematology Practicum	
MEDT 4510 - Clinical Chemistry Practicum	
MEDT 4600 - Clinical Pathways & Critical Decision Making	
MEDT 4610 - Urinalysis Practicum	
MEDT 4710 - Clinical Immunoserology Practicum	
MEDT 4900 - Laboratory Management and Education	
C. Related Field Courses	6 hours
BIOL 2010 - Microbiology	
HLPR 2000 - Research in the Health Professions	
D. Transfer MLT Courses	6 hours
Total Semester Hours	123 hours
E. Regents' Test and Exit Exam	

NURSING

Faculty

Camille Stern, Department Head
Judith Alexander
Eva Caldwell
Catherine Gilbert
Amber Derksen
Jeanne Haynie
Pamela Mahan
Carole Massey
Cherie McCann
Leah McNair
Margaret Mossholder
Debbie Mulford
Anita Nivens

Marilyn O'Mallon
Chris Orton
Luzviminda Quirimit
Kim Reeves
Gratchen Roberson
Susan Sammons
Lynn Stover
Helen Taggart
Julie Timms
Linda Tuck
Tonya Tyson

Accreditation Statement

The program in nursing is approved by the Georgia Board of Nursing. The AASU Department of Nursing is accredited by the Commission on Collegiate Nursing Education (CCNE). Accreditation is an indication of public approbation, attesting to the quality of the educational program and the continued commitment of the sponsoring institution to support the program. (For further information about the accreditation of the program, please contact the Commission on Collegiate Nursing Education at the following address:

Commission on Collegiate Nursing Education
One Dupont Circle, NW, Suite 530
Washington, DC 20036-1120
(202) 887-6791

General Information

The Department of Nursing offers a four year program leading to the Bachelor of Science in Nursing degree. The nursing program of study is designed to prepare graduates with entry level nursing practice knowledge and skills upon which professional careers and additional study can be built. The baccalaureate nursing program emphasizes professional nursing practice and leadership skills. Graduates are prepared to provide comprehensive nursing care for people in a variety of settings. The baccalaureate degree also provides the foundation for graduate education in nursing. Graduates must meet all legal requirements for licensure as established by the State Board of Nursing in order to be eligible to take the National Council Licensure Examination (NCLEX-RN) for licensure as a registered nurse (RN). Full and part-time study is available.

Special Programs

Early Admission to Baccalaureate Nursing Program. This innovative program is designed to guarantee early admission to the pre-licensure baccalaureate nursing program for enrolled Armstrong students who meet the following criteria:

1. Complete all courses in Area A and D at AASU with no repeats
2. Maintain a GPA of at least 3.0 on AASU Core courses required for nursing.
3. Pass the Regent's Reading and Writing Tests
4. Achieve scores of at least 60 on both the composite reading comprehension and math portions of the Nurse Entrance Test (NET)

Students meeting these criteria may apply for early admission and acceptance in nursing beginning the semester following completion of Area F courses. Prior to admission, accepted students must complete at least 54 hours of core including all Area F courses with no repeats and

maintain a minimum GPA of 3.0. Students who fail to meet the criteria for early admission must apply for regular admission during the next admission cycle.

RN Options Program - Post-Licensure. This innovative program is designed for registered nurses who wish to pursue the bachelor's and/or master's degrees in nursing. Students take a common sequence of courses before they select their degree option. If students select the master of science option, the BSN degree is awarded concurrently upon completion of graduate degree requirements. Graduate track options include adult clinical nurse specialist, adult nurse practitioner, advanced nursing practice, or nursing administration. The program of study is designed to meet the needs of the registered nurse whose dedication to life-long learning demands the attainment of formal advanced education. This preparation is provided by experienced, dedicated faculty in a scholarly atmosphere permitting students to interact regularly with leaders in nursing. Full and part-time study is available.

The Georgia RN-BSN Articulation Model: Advanced Placement through Validation of Previous Learning. Armstrong Atlantic State University participates in the Georgia RN-BSN Articulation Model for RNs. Thirty-three hours of previously earned nursing credit will be applied toward the baccalaureate degree after successful completion of six RN Options credit hours. Credit is awarded based on the fulfillment of applicable requirements as listed below:

All Associate Degree Nursing (ADN) and Diploma Graduates of Nursing Programs in Georgia or NLN Accredited Programs in USA Outside Georgia:

- Fewer than four years after graduation with more than 1000 clinical practice hours in previous three years - *no testing required*
- Four or more years after graduation with more than 1000 clinical practice hours in previous three years - *written validation of clinical practice required (no testing)*
- Fewer than four years after graduation with fewer than 1000 clinical practice hours in previous three years - *Testing may be required*

Advanced Placement Option for Licensed Practical Nurses. Students admitted with current licensure as a practical nurse may be eligible for advanced placement in the baccalaureate nursing program. Eligibility is based on faculty review of individual records and documentation, including transcripts, verification and proof of licensure/certification, and validation of clinical practice skills. The option for advanced placement allows students who are licensed practical nurses to challenge by testing up to 25 semester credit hours of required courses in the curriculum. Qualified students interested in this option should contact the Department of Nursing for advisement and additional information. Students must meet all admission and progression requirements for the baccalaureate nursing program. See also "Special Requirements".

Admission Requirements

Pre-Licensure. See "Limits on Admission" in the College of Health Professions section of this catalog. Applicants to the program must be regularly admitted to Armstrong Atlantic State University prior to making application to the nursing major. Students also must meet the admission requirements of the baccalaureate nursing program to be eligible for admission to the nursing major. Admission decisions are made by the nursing faculty.

Admission to the nursing major is competitive. Minimum requirements to be admitted include a grade of C or better in each course in Core Areas A, D, and F, completion of at least 51 hours of required core with a minimum adjusted grade point average of 2.7 in all prerequisite course work attempted, and obtaining scores of at least 60 on both the reading and mathematics portions of the Nurse Entrance Test. For Core Areas A, D, and F (excluding sciences), failing two (2) courses or repeating one course more than one (1) time in order to achieve a passing grade, makes the student ineligible for admission. In addition, students must meet the COHP science rule: "no more than two (2) science courses may be repeated more than once." Meeting minimum requirements does not guarantee admission to the nursing major. Those applicants who, in the judgement of the nursing faculty, present the strongest academic record and show the most promise of success in the nursing major will be accepted. Students are expected to meet the core performance standards for nursing posted on the DON web page (www.nursing.armstrong.edu).

Transfer applicants must meet the criteria established for admission to the nursing major. Transfer credit will be awarded depending upon equivalency of courses. Decisions for course substitutions will be made by the nursing faculty using actual course syllabi with content outlines and descriptions supplied by the transfer student. Post-baccalaureate students must complete all courses in Area F, MATH 2200 (or appropriate substitute approved by the Nursing department), and all university requirements for degree completion. Post-baccalaureate applicants must achieve a 2.7 minimum GPA in Area F and Statistics in order to be considered for admission.

Application to the nursing major must be submitted by the published deadline. (Consult the departmental office for details.) Only completed applications will be considered. Students who are not admitted may reapply for the next admission cycle. Complete information regarding admission procedures is available in the Department of Nursing.

Upon admission, students must pay a \$175.00 non-refundable deposit to reserve a place in the program. This deposit is applied to first semester fees and liability insurance for two academic years.

See also “Special Requirements” below.

RN Options Program (post-licensure). Students seeking admittance to this program must obtain regular admission to Armstrong Atlantic State University. Also required are the following items:

- Completed RN Options application form
- Minimum adjusted grade point average of 2.0 on all prerequisite course work
- Current professional Georgia nursing license

Admitted students must meet specific criteria before they are eligible to enroll in nursing major courses. Completion of the nursing sequence must occur within four years of enrollment in the RN Options courses.

Special Requirements

Legal. The Georgia Board of Nursing has the authority to refuse to grant a license to an applicant upon a finding by the board that the applicant has been convicted of any felony, crime involving moral turpitude, or crime violating a federal or state law relating to controlled substances or dangerous drugs in the courts of this state, any other state, territory, or country, or in the courts of the United States, including but not limited to a plea of *nolo contendere* entered to the charge. Unlicensed students may be employed only as unlicensed personnel. They may not represent themselves or practice as nursing students except as part of a scheduled clinical learning activity in the curriculum. Students must meet all legal requirements for licensure.

Health and Insurance. Admitted students must submit complete health histories and evidence of health insurance, prior to admission and annually.

CPR. Admitted students must submit proof of CPR certification (adult, child and infant) prior to beginning nursing courses and annually. Current certification must be maintained during nursing course enrollment.

Criminal Background Checks and Drug Testing. Clinical agencies utilized by the Department of Nursing may require criminal background checks and/or drug testing prior to acceptance of the student into the clinical facility. Students who do not pass the criminal background check and/or drug test may be unable to attend clinical, and therefore will be unable to complete the clinical course requirements. Any fees or costs associated with background checks and/or drug testing are the responsibility of the student.

Clinical Agencies. Students who are denied admission to a clinical facility for any reason may not be able to complete clinical course requirements, and thus may not be able to complete the required program of study.

Progress Requirements

Students are responsible for reading and abiding by the policies in the Baccalaureate Nursing Program Student Handbook, including the core performance standards.

Students must be admitted to the nursing program in order to enroll in any nursing course.

Students must complete the baccalaureate nursing program within four consecutive years from the date of their initial admission to the nursing major. Students who do not complete the program within this time limit must apply for readmission, meet current criteria for admission, and have their previous credits evaluated. Students who are granted readmission must meet course requirements in effect at the time of readmission. Any student not matriculating each semester, excluding summer semester, must apply for readmission to the program.

All pre-licensure nursing students will be required to participate in comprehensive testing while enrolled in the nursing program of study. Additional fees per semester will be applicable.

The following must be maintained to continue in the nursing program:

- Grades of C or better in each nursing course (C = 75-79)

Grading Policy: Grades for all course assignments will be recorded as earned with no mathematical rounding. This policy allows the faculty of the Department of Nursing to remove uncertainty and ensure integrity in the grading process for all students. Numerical averages will not be rounded up.

A	90.00 - 100.00
B	80.00 - 89.99
C	75.00 - 79.99
D	70.00 - 74.99
F	Below 70.00

- Overall grade point average of 2.0
- On an annual, up-to-date basis: health history; physical examination by an M.D. or N.P.; tuberculin test or proof of negative chest x-ray; immunizations; CPR certification; liability insurance; health insurance. (Additional institutional requirements may exist or may change over time, depending on clinical agency policy.)
- Post-licensure registered nurse students must maintain current Georgia licensure.

Pre- and post-licensure students earning a grade lower than C in one nursing course must meet with the department head to review the student's program of study. Before progressing in the program, the student must repeat the failed course at the next offering on a space available basis.

Pre- and post-licensure students earning a grade lower than C in two nursing courses will be dismissed from the program.

Students dismissed for academic or clinical failures may reapply for admission after a time period of at least one semester. Nursing credit from the previous admission may not be carried over to the second admission. All students dismissed from a second admission to the pre- or post-licensure nursing programs will not be eligible for further admission considerations.

Any academic work required to satisfy course requirements for grades of incomplete in prerequisite courses must be accomplished before enrollment in the successive nursing course.

All students must pass the Regents' Test in accordance with AASU policy. Graduating nursing students are required to take a written comprehensive exam prior to graduation.

Failure to comply with any of the above requirements while in the nursing program constitutes grounds for dismissal from the program.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING - PRE-LICENSURE STUDENTS

A. General Requirements (Core Areas, A, B, C, D, 2.B., and E)	42 hours
Core Area F	18 hours
BIOL 2081 - Human Anatomy and Physiology I*	
BIOL 2082 - Human Anatomy and Physiology II*	
BIOL 2275 - Microorganisms and Disease*	
PSYC 1101 - Introduction to Psychology	
PSYC 2950 - Developmental Psychology	
Physical Education	3 hours
B. Major Field Courses	64 hours
NURS 3304 - Professional Nursing Practice	

NURS 3309 - Pathophysiology
 NURS 3311 - Introduction to Pharmacological Concepts for Nursing
 NURS 3312 - Pharmacological Concepts for Nursing I
 NURS 3320 - Health Assessment of the Well Individual
 NURS 3344 Skills and Essentials
 NURS 3345 - Adult Health I
 NURS 3535 - Mental Health
 NURS 4313 - Pharmacological Concepts for Nursing II
 NURS 4345 - Adult Health II
 NURS 4355 – Women and Children’s Health
 NURS 4440 - Population Focused Nursing
 NURS 4445 - Research for Evidence-Based Practice
 NURS 4450 - Professional Nursing Leadership and Management
 NURS 4466 - Critical Scientific Inquiry

One elective course selected from:

NURS 3610 - Strategies for Success in Professional Nursing
 NURS 4210 - Gerontology in the 21st Century
 NURS 4211 - Vulnerable Populations
 NURS 4212 - International Nursing Issues and Trends
 NURS 4213 - Introduction to Forensic Nursing and the Law
 NURS 4214 - Complementary and Alternative Medicine
 NURS 4215 - Home Health Nursing
 NURS 4216 - Palliative Care at End of Life
 NURS 4217 - Critical Care
 NURS 4218 - Perioperative Nursing
 NURS 4219 - Nursing Perspectives: Then, Now, and the Future
 NURS 4220 - Women and Leadership in Nursing
 NURS 4221 - Nursing Practice in the Military
 NURS 4222 - Pediatric Nursing Externship
 NURS 4223 - Maternal/Infant Nursing Externship

Total Semester Hours

127 hours

C. Regents’ Test, Departmental and University Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING - PRE-LICENSURE STUDENTS, ADVANCED PLACEMENT TRACK (APT)

A. General Requirements (Core Areas, A, B, C, D. 2.B., and E) 42 hours

Core Area F 18 hours

BIOL 2081 - Human Anatomy and Physiology I*
 BIOL 2082 - Human Anatomy and Physiology II*
 BIOL 2275 - Microorganisms and Disease*
 PSYC 1101 - Introduction to Psychology
 PSYC 2950 - Developmental Psychology

Physical Education 3 hours

B. Major Field Courses 64 hours

NURS 3304 - Professional Nursing Practice
 NURS 3308 - Pharmacological Concepts for Nursing
 NURS 3309 - Pathophysiology
 NURS 3320 - Health Assessment of the Well Individual
 NURS 3344 – Skills and Essentials**
 NURS 3345 - Adult Health I**
 NURS 3355 - Women’s Health**
 NURS 3425 - Children’s Health**

NURS 4345 - Adult Health II
 NURS 4435 - Mental Health Restoration**
 NURS 4440 - Population Focused Nursing
 NURS 4445 - Nursing Research
 NURS 4450 - Professional Nursing Leadership and Management
 NURS 4466 - Critical Scientific Inquiry

One elective course selected from:

NURS 3610 - Strategies for Success in Professional Nursing
 NURS 4210 - Gerontology in the 21st Century
 NURS 4211 - Vulnerable Populations
 NURS 4212 - International Nursing Issues and Trends
 NURS 4213 - Introduction to Forensic Nursing and the Law
 NURS 4214 - Complementary and Alternative Medicine
 NURS 4215 - Home Health Nursing
 NURS 4216 - Palliative Care at End of Life
 NURS 4217 - Critical Care
 NURS 4218 - Perioperative Nursing
 NURS 4219 - Nursing Perspectives: Then, Now, and the Future
 NURS 4220 - Women and Leadership in Nursing
 NURS 4221 - Nursing Practice in the Military
 NURS 4222 - Pediatric Nursing Externship
 NURS 4223 - Maternal/Infant Nursing Externship

**Must be completed within 10 years of admission to the nursing program.*

***Course may be challenged by testing for licensed practical nurses admitted to the baccalaureate nursing program.*

Total Semester Hours

127 hours

C. Regents' Test, Departmental and University Exit Exam

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN NURSING, RN
 OPTIONS PROGRAM - POST-LICENSURE STUDENTS**

A. General Requirements (Core Areas, A, B, C, D.2.B., and E) 42 hours

Core Area F 18 hours

BIOL 2081 - Human Anatomy and Physiology I
 BIOL 2082 - Human Anatomy and Physiology II
 BIOL 2275 - Microorganisms and Disease

Two courses selected from:

PSYC 1101 - Introduction to Psychology
 PSYC 2950 - Developmental Psychology
 SOCI 1101 - Introductory Sociology

Physical Education 3 hours

B. Major Field Courses 64 hours

NURS 3344: Skills and Essentials*
 NURS 3345 - Adult Health I*
 NURS 3355 - Women's Health*
 NURS 3425 - Children's Health*
 NURS 4000 - Professional Nursing Practice
 NURS 4002 - Leadership and Management for Professional Nurses
 NURS 4003 - Health Care Systems and Policy
 NURS 4004 - Health Assessment
 NURS 4005 - Population Focused Community Nursing in a Global Society
 NURS 4006 - Professional Role Synthesis

NURS 4007 - Culture and Families
 NURS 4008 - Pathophysiology/Pharmacology
 NURS 4345 - Adult Health II*
 NURS 4435 - Mental Health Restoration *
 NURS 4445 - Nursing Research
 NURS 4460: Professional Nursing Seminar*
 One elective course selected from:
 NURS 3610 - Strategies for Success in Professional Nursing
 NURS 4210 - Gerontology in the 21st Century
 NURS 4211 - Vulnerable Populations
 NURS 4212 - International Nursing Issues and Trends
 NURS 4213 - Introduction to Forensic Nursing and the Law
 NURS 4214 - Complementary and Alternative Modalities
 NURS 4215 - Home Health Nursing
 NURS 4216 - Palliative Care at End of Life
 NURS 4217 - Critical Care
 NURS 4218 - Perioperative Nursing
 NURS 4219 - Nursing Perspectives: Then, Now, and the Future
 NURS 4220 - Women and Leadership in Nursing
 NURS 4221 - Nursing Practice in the Military
 NURS 4222 - Pediatric Nursing Externship
 NURS 4223 - Maternal/Infant Nursing Externship

Total Semester Hours**127 hours**

** In accordance with the Georgia RN-BSN Articulation Model (Advanced Placement Validation of Previous Learning), 33 semester hours credit will be awarded after successful completion of six (6) R.N. Options credit hours.*

C. Regents' Test, Departmental and University Exit Exams

PHYSICAL THERAPY
Faculty

Anne Thompson, Interim Department Head and Graduate Coordinator
 Kathleen Schaefer, Academic Coordinator of Clinical Education
 George Davies
 Jennifer Lander
 David Lake
 Andi Beth Mincer

Accreditation Statement

The Doctor of Physical Therapy degree offered by the Department of Physical Therapy is accredited by the Commission on Accreditation of Physical Therapy Education. The program has continuing accreditation through 2012.

General Information

The Department of Physical Therapy offers the Doctorate in Physical Therapy Degree (DPT) and the Bachelor of Science in Rehabilitation Sciences Degree.

The DPT degree requires completion of a bachelor degree in any field, completion of 10 prerequisite courses, volunteer experiences in physical therapy, recommendations, and satisfactory performance on the Graduate Record Examination. The DPT Program, admissions requirements, and application process are described in the Armstrong Atlantic State University Graduate Catalog.

The Bachelor of Science in Rehabilitation Sciences is specifically designed for the preparation of students going into graduate programs in physical therapy, occupational therapy, and sports

medicine. Elective courses increase the flexibility of this degree, so that those wishing to enter graduate programs in other health disciplines could consider this degree program.

This degree combines core courses with a major curriculum specifically designed by the physical therapy and sports medicine faculty to meet the needs of students entering the fields of physical therapy, occupational therapy or sports medicine. The bachelor's degree program combines the strong science curriculum (chemistry, physics, biology, anatomy, and physiology) needed for success in the health professions with a strong background in the behavioral sciences (general and abnormal psychology, health, and human development). The student's knowledge of exercise and exercise principles is developed in a three-course sequence of courses that focuses in turn on the musculoskeletal, neuromuscular and cardiovascular-pulmonary bases of exercise.

Specific Programs

Pre-Physical Therapy Track. The Pre-Physical Therapy track within the Bachelor of Rehabilitation Sciences is specifically designed to meet the basic prerequisite course requirements for all physical therapy programs. This curriculum, in addition to meeting the minimal requirements to enter graduate programs in physical therapy, provides additional knowledge in the areas of exercise physiology, kinesiology, biomechanics, and strength and conditioning that students will find helpful in their graduate studies.

Students have the opportunity to customize their program with up to six upper division (3000, 4000 or 5000 levels) elective courses that can be chosen from the biological, behavioral, and health sciences.

Pre-Occupational Therapy Track. The Pre-Occupational Therapy track within the Bachelor of Rehabilitation Sciences is specifically designed to meet the prerequisite course requirements for graduate programs in occupational therapy programs. This curriculum provides the strong foundation in the basic sciences and the behavioral sciences that will help students succeed in their graduate studies in occupational therapy.

Students have the opportunity to customize their program with up to six upper division (3000, 4000 or 5000 levels) elective courses that can be chosen from the biological, behavioral, and health sciences.

Pre-Sports Medicine Track. The Pre-Sports Medicine track within the Bachelor of Rehabilitation Sciences, is specifically designed by faculty in sports medicine to meet the content requirements for success in graduate programs in athletic training and sports medicine. In addition to the strong foundation in the basic sciences, this track has advanced courses in the pathophysiology, assessment, and treatment of sports injuries, and the pharmacology of sports medicine. An internship in sports medicine provides valuable practical experience prior to entering the field.

Students have the opportunity to customize their program with up to five upper division (3000, 4000 or 5000 levels) elective courses that can be chosen from the biological, behavioral and health sciences.

Admissions

Admission to the Bachelor of Science in Rehabilitation Sciences requires regular admission to Armstrong Atlantic State University. Students must be eligible for MATH 1111 and ENGL 1101.

Progress Requirements

Students must earn a grade of C or better in each required course in the Bachelor of Rehabilitation Sciences major. Courses may be repeated only once; thus, students failing to earn a C or better in the second attempt will be dismissed from the program.

Students in the Pre-Sports Medicine Track must submit evidence of liability insurance and a health assessment prior to beginning their practicum. Students in this track must also be CPR and first aid certified prior to beginning their practicum.

All students must complete the university exit examination during their last semester before graduation.

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
REHABILITATION SCIENCES**

A. General Requirements (Core Areas, A, B, C, D.IIa, and E)	42 hours
Core Area F	18 hours
HLPR 2000 - Introduction to Research in the Health Professions	
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II	
One of the following (if not used in Core Area D.IIa):	
BIOL 1107/1108 (with labs) Principles of Biology I/II	
CHEM 1211/1212 (with labs) Principles of Chemistry I/II	
Physical Education	3 hours

Choose 1 of the following tracks:

Track I: Pre-Physical Therapy, Pre-Occupational Therapy

B. Major Field Courses	38-41 hours
ITEC 1050 - Introduction to Computer Concepts and Applications	
PSYC 1101 - Introduction to Psychology (if not taken in Core Area E)	
PHYS 1111/1111L Introductory Physics I	
PHYS 1112/1112L Introductory Physics II	
COMM 2280 Speech Communication	
RESP 2110 Medical Terminology	
PSYC 3280 Abnormal Psychology	
RHAB 5100U - Neuromuscular Basis of Exercise	
SMED 5005U - Musculoskeletal Basis of Exercise	
SMED 5055U - Pathophysiology of Sports Medicine Injury	
SMED 5060U - Physiological Foundations of Sport	
SMED 5070U - Theory and Methodology of Strength & Conditioning	
PUBH 5580U - Health & Human Development	

C. Electives	19-22 hours
18 hours must be at or above the 3000 level.	

Track II: Pre-Sports Medicine

B. Major Field Courses	44-46 hours
PSYC 1101 - Introductory Psychology (if not taken in Core Area E)	
PHYS 1111/1111L - Introductory Physics I	
PHYS 1112/1112L - Introductory Physics II	
PEEC 2000 - Safety, First Aid and CPR	
HSCC 3140 - Epidemiology	
PSYC 3280 - Abnormal Psychology	
HSCP 3730 - Health Promotion Theory	
SMED 5005U - Musculoskeletal Basis of Exercise	
SMED 5015U - Assessment and Evaluation of Musculoskeletal Injuries	
SMED 5050U - Pharmacology of Sports Medicine Injury	
SMED 5055U - Pathophysiology of Sports Medicine Injury	
SMED 5060U - Physiological Foundations of Sport and Physical Activity	
SMED 5070U - Theory and Methodology of Strength and Conditioning	
SMED 5080U - Performance Evaluation & Exercise Testing	
PUBH 5580U - Health & Human Development	
SMED 5945U - Internship in Sports Medicine	

C. Electives	13-15 hours
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Total Semester Hours

123 hours

RADIOLOGIC SCIENCES

Faculty

Elwin Tilson, Interim Department Head
Sharon Smith, Clinical Coordinator, Radiography Track
Lee Braswell, Coordinator, Radiation Therapy Track
Myka Campbell, Coordinator, Sonography Track
Rochelle Lee, Coordinator, Nuclear Medicine Track
Esma Campbell, Coordinator, Cardiovascular Interventional Track
Gloria Strickland, Coordinator, Bridge Program
Deborah Lamb
Bonnie Tobias

Accreditation Statement

The radiologic sciences tracks in radiography and radiation therapy are accredited by the Joint Review Committee on Education in Radiologic Technology for the period 2001-2008. The nuclear medicine track is accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology for the period 2006-2011.

General Information

The Department of Radiologic Sciences offers a bachelor of science degree in radiologic sciences, with tracks in radiation therapy (oncology), radiography, sonography, nuclear medicine and cardiovascular interventional sciences. All are highly technological health care professions with significant patient contact. Radiographers use radiation, magnetism, and sophisticated computer systems in the production of diagnostic medical images. Specialty practitioners perform in areas such as mammography, MRI, CT, cardiovascular intervention, education, and quality management.

Radiation therapists work with physicians to plan and deliver radiation therapy treatments, with a primary responsibility for accurate delivery and evaluation of treatments and effective communication with patients.

Nuclear Medicine Technology is a modality of diagnostic imaging that uses radioactive materials for both diagnostic and therapeutic procedures. Nuclear Medicine Technologists administer these radioactive materials to patients and monitor the characteristics and functions of tissues or organs in which they localize. Nuclear Medicine Technologists operate gamma scintillation cameras that detect the radioactive material in the patient's body to create an image.

Diagnostic Medical Sonography uses high frequency sound waves to produce medical images of internal human anatomy and superficial structures in cross section. Many people traditionally associate sonography with obstetrics and gynecology. Other ultrasound specialties include abdominal, breast, ophthalmic, neurosonography, vascular, and echocardiography. The Diagnostic Medical Sonographer uses ultrasound imaging equipment to gather pertinent information from images that are necessary to assist the supervising physician in making a diagnosis, and must be able to work independently and with other health care professionals.

Advancement of technology has moved to a new level in that many re-vascularization procedures that once required surgical intervention are now performed percutaneously in invasive cardiology laboratories and radiology interventional suites. Cardiovascular interventional specialists work closely with physicians in complex procedures to diagnose and treat cardiac and vascular disease.

The department provides comprehensive education to ensure that students enter their major field as highly competent, caring practitioners, dedicated to teamwork, research, community service, professionalism, and life-long learning. Traditional teaching methods and innovative instructional technology are used to encourage students to develop critical thinking and problem-solving skills. The department also offers a post-baccalaureate certificate program, and an online and campus-based R.T. to B.S.R.S. bridge program.

Admission Requirements

Admission to all programs in Radiologic Sciences is on a space-available basis, and meeting requirements does not guarantee admission. The department has a separate formal admissions process in addition to the admission process for the university. Applicants are required to submit a formal application to the department; transcripts of all college and technical school course work; complete the HOBET test (contact Student Affairs for registration form); and participate in an interview (if needed).

The deadline for submission of all application items is **November 1st**. (Please note this due date does not apply to the Bridge Program. One may apply to the Bridge Program at any time). Baccalaureate degree programs begin in the summer semester of each year; however, RTs entering the Bridge Program are not always tied to the summer start date. Department faculty will advise anyone interested in majoring in radiologic sciences. Admission to the professional component of the baccalaureate degree program is competitive. The amount of completed course work towards the degree, the number of required science courses completed, HOBET scores, the interview (if needed), and GPA determine competitiveness. Additional points may be awarded for completed, select course work in the major; applicants should see their advisor in regard to this matter. Detailed procedures and guidelines for program admission should be obtained by contacting the Department of Radiologic Sciences, or from www.radsci.armstrong.edu. The following guidelines are provided for general information only.

Non-RTs, Special Options and Post-Baccalaureate Certificate Program. Must have regular admission to Armstrong Atlantic and a grade point average of 2.5 or higher for all college work. Applicants with less than a 2.5 GPA can apply and may be considered under special circumstances.

Prior to the beginning of the program the following must be successfully completed:

- Fifty semester hours of non-RADS degree requirements that include two college English courses and one college algebra course.
- Human Anatomy and Physiology I
- Three of the four additional lab sciences in the program of study
 - for Nuclear Medicine: chemistry and physics or physical environment with labs
 - for Sonography: biology and physics or physical environment with labs
- Regents' Test (except for out-of-state transfer students)
- Special options applicants must provide proof of ARRT or NMTCB certification.

After admission to the Department of Radiologic Sciences, students must pay a \$100.00 non-refundable deposit to reserve a seat in the program. Deposits are applied to students' first semester matriculation fees.

Baccalaureate Degree (Bridge) Program and Internet-based Degree (Bridge) Program for RTs. Requirements are: graduate of a Joint Review Committee on Education in Radiologic or Nuclear Medicine Technology accredited program, regular admission to AASU, grade point average of 2.5 or higher for all college work, and certification by the ARRT or NMTCB in radiography, nuclear medicine or radiation therapy (if not yet certified, must become certified prior to the end of the first semester at AASU). Before beginning any of the professional courses, the following must be successfully completed:

- At least 45 semester hours of degree requirements (RT certification applies towards these hours)
- Anatomy and Physiology I and II or equivalent
- Two college English courses and one college algebra course

Students who elect to complete the clinical track of the Bridge program must present the following items to the Department of Radiologic Sciences prior to the commencement of clinical rotation: proof of health care insurance that meets minimum standards; proof of professional liability insurance (must be acquired through AASU); proof of completion of TB assessment, such as chest radiograph or PPD; proof of recent (within one year) physical examination; proof of current CPR certification. Students must also complete a criminal background check and drug testing (if required by the clinical institution), and supply a copy of negotiated clinical experience schedule to the AASU course clinical coordinator.

Special Requirements

Criminal Background Checks and Drug Testing. Clinical agencies utilized by the Department of Radiologic Sciences may require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be unable to attend clinical courses and therefore may be unable to complete their program of study. Any fees or cost associated with background checks and/or drug testing are the responsibility of the student. Prior conviction of a felony or misdemeanor may prevent one from sitting for the national certification examination. Conviction of either a felony or misdemeanor necessitates completion of the pre-application review process as prescribed by the certification agency, and providing the Department with verification of eligibility for the examination. **See Rad. Sci. application for more information.**

Health and Liability Insurance. Prior to matriculation in clinical education courses, students are required to submit evidence of liability (malpractice) insurance, health insurance, and a physical examination. Specific information regarding these requirements will be distributed to admitted students. No student may enroll in a clinical education course without the above mentioned requirements.

CPR. Students must show proof of certification in CPR before participating in clinical experiences.

ACLS Certification. CVIS students are required to earn an ACLS certification.

Transportation. Students are responsible for providing their own transportation to clinical sites for clinical education courses. Some clinical sites may be located outside of the city of Savannah. Clinical assignments may be as far as two hours away.

Readmission Requirements

Students who have been admitted to and have enrolled in the radiologic sciences department, but who have either withdrawn or been dismissed without prejudice from the program, may apply for readmission to the department only if they have a cumulative college grade point average of 2.5 at the time they wish to reenter. Readmission decisions will be based upon space availability and recommendation by the radiologic sciences admissions committee.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RADIOLOGIC SCIENCES

A. General Requirements (Core Areas A, B, C, D.2.B., and E)	42 hours
Core Area F	18 hours
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II	
MATH 1113 - Pre-Calculus	
Approved Elective	
One of the following:	
PHSC 1211/1211L - Physical Environment and Lab	
PHYS 1111/1111L - Introductory Physics I and Lab I	
Physical Education	3 hours
B. Major Field Courses	26 hours
HLPR 2000 - Research in Health Professions	
RADS 3000 - Introduction to Radiologic Sciences	
RADS 3050 - Patient Care and Interactions	
RADS 3071 - Imaging and Radiation Procedures I	
RADS 3100 - Medical Communication Skills	
RADS 3200 - Imaging Pathology	
RADS 3450 - Leadership in Health Care	
RADS 3451 - Leadership Practicum	
RADS 4410 - Cross Sectional Anatomy	

RADS 4430 - Professional Practice Seminar

RADS 4450 - Radiology Management & Leadership

a. Radiography Track 40 hours

RADS 3060 - Principles of Image Formation and Evaluation

RADS 3072 - Imaging and Radiation Procedures II

RADS 3073 - Imaging and Radiation Procedures III

RADS 3090 - Introduction to Radiation Physics

RADS 3150 - Radiobiology and Radiation Protection

RADS 3161 - Radiography Clinical Education I

RADS 3162 - Radiography Clinical Education II

RADS 4050 - Quality Management in Radiography

RADS 4090 - Radiographic Physics

RADS 4163 - Radiography Clinical Education III

RADS 4163S - Radiography Synthesis Seminar

RADS 4164 - Radiography Clinical Education IV

RADS 4420 - Senior Radiography Seminar

One of the following pairs:

RADS 4111 - Advanced Imaging in MRI **and** RADS 4171 - Magnetic Resonance Clinical Education

or RADS 4112 - Advanced Imaging in CT **and** RADS 4172 - Computed Tomography Clinical Education

or RADS 4113 - Advanced Imaging in Mammography **and** RADS 4173 - Mammography Clinical Education

Total Semester Hours for Radiography Track 129 hours

b. Radiation Therapy Track 40 hours

RADS 3060 - Principles of Image Formation and Evaluation

RADS 3090 - Introduction to Radiation Physics

RADS 3150 - Radiobiology and Radiation Protection

RADS 3190 - Principles of Radiation Therapy

RADS 3301 - Radiation Therapy Clinical Education I

RADS 3302 - Radiation Therapy Clinical Education II

RADS 4201 - Radiation Oncology I

RADS 4202 - Radiation Oncology II

RADS 4240 - Radiation Therapy Physics

RADS 4260 - Treatment Planning

RADS 4280 - Quality Management in Radiation Therapy

RADS 4303 - Radiation Therapy Clinical Education III

RADS 4304 - Radiation Therapy Clinical Education IV

RADS 4304S - Radiation Therapy Synthesis Seminar

RADS 4305 - Radiation Therapy Clinical Education V

RADS 4305S - Radiation Therapy Seminar

Total Semester Hours for Radiation Therapy Track 129 hours

c. Nuclear Medicine Track* 40 hours

RADS 3090 - Introduction to Radiation Physics

RADS 3150 - Radiobiology and Radiation Protection

RADS 3501 Principles and Practice of Nuclear Medicine I

RADS 3502 Principles and Practice of Nuclear Medicine II

RADS 3503 Principles and Practice of Nuclear Medicine III

RADS 3520 Radio-pharmacy and Radiochemistry

RADS 3531 Nuclear Medicine Clinical Education I

RADS 3532 Nuclear Medicine Clinical Education II

RADS 4533 Nuclear Medicine Clinical Education III
 RADS 4534 Nuclear Medicine Clinical Education IV
 RADS 4535 Nuclear Medicine Clinical Education V
 RADS 4540 Nuclear Medicine Physics and Instrumentation
 RADS 4561 Nuclear Medicine Synthesis
 RADS 4562 Nuclear Medicine Seminar
 RADS 4570 Introduction to PET

Total Semester Hours for Nuclear Medicine Track **129 hours**

*Nuclear Medicine students must complete a general chemistry course. This may be taken as part of the science requirement in Area D or as the approved elective in Area F.

d. Sonography Track* **40 hours**

COMM 2280 - Speech Communication
 RADS 3601 Sonographic Theory I
 RADS 3602 Sonographic Theory II
 RADS 3603 Sonographic Theory III
 RADS 3631 Sonography Clinical Education I
 RADS 3632 Sonography Clinical Education II
 RADS 3651 Sonography Physics I
 RADS 3652 Sonography Physics II
 RADS 4633 Sonography Clinical Education III
 RADS 4634 Sonography Clinical Education IV
 RADS 4635 Sonography Clinical Education V
 RADS 4661 Sonography Synthesis
 RADS 4662 Advanced Sonography Seminar
 RADS 4671 Introduction to Vascular Sonography

Total Semester Hours for Sonography Track **129 hours**

*Sonography students must complete a general biology course. This may be taken as part of the science requirement in Area D or as the approved elective in Area F.

e. Cardiovascular/Interventional Track **40 hours**

RADS 3060 - Principles of Image Formation and Evaluation
 RADS 3090 - Introduction to Radiation Physics
 RADS 3150 - Radiobiology and Radiation Protection
 RADS 3750 - Advanced Patient Care
 RADS 3761 - Cardiovascular Clinical Education I
 RADS 3762 - Cardiovascular Clinical Education II
 RADS 3763 - Cardiovascular Clinical Education III
 RADS 3771 - Introduction to Cardiovascular Technology
 RADS 3772 - Cardiovascular Imaging & Equipment
 RADS 4090 - Radiographic Physics
 RADS 4750 - Patient Assessment & Monitoring
 RADS 4751 - Emergency Care
 RADS 4752 - Physiologic Monitoring & Recording
 RADS 4764 - Cardiovascular Clinical Education IV
 RADS 4765 - Cardiovascular Clinical Education V
 RADS 4771 - Cardiovascular Synthesis
 RADS 4772 - Cardiovascular Seminar

Total Semester Hours for Cardiovascular/Interventional Track **129 hours**

C. Regents' Test and Exit Exam

CURRICULUM FOR THE POST-BACCALAUREATE CERTIFICATE PROGRAM IN RADIATION THERAPY

Professional Courses:

RADS 3190 - Principles of Radiation Therapy
 RADS 4201 - Radiation Oncology I
 RADS 4202 - Radiation Oncology II
 RADS 4240 - Radiation Therapy Physics
 RADS 4260 - Treatment Planning
 RADS 4280 - Quality Management in Radiation Therapy
 RADS 3302 - Radiation Therapy Clinical Education II
 RADS 4303 - Radiation Therapy Clinical Education III
 RADS 4304 - Radiation Therapy Clinical Education IV
 RADS 4305 - Radiation Therapy Clinical Education V

Total Semester Hours

27 hours

CURRICULUM FOR THE POST-BACCALAUREATE CLINICAL SPECIALIST CERTIFICATE IN ADVANCED IMAGING

Professional Courses:

RADS 4175 - Advanced Clinical Education
 RADS 4176 - Specialized Clinical Education
 RADS 4410 - Cross Sectional Anatomy
 Choose one of the following:
 RADS 4111 - Advanced Imaging in MRI
 RADS 4112 - Advanced Imaging in CT
 RADS 4113 - Advanced Imaging in Mammography
 RADS 4114 - Advanced Imaging in CVIT

Total Semester Hours

18 hours

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RADIOLOGIC SCIENCES - SPECIAL OPTIONS

A. General Requirements (Core Areas A, B, C, D.2.B., and E) 42 hours

Core Area F 18 hours

BIOL 2081 - Human Anatomy and Physiology I

BIOL 2082 - Human Anatomy and Physiology II

MATH 1113 - Pre-Calculus

Approved Elective

One of the following:

PHSC 1211/1211L - Physical Environment and Lab

PHYS 1111/1111L - Introductory Physics I and Lab I

Physical Education 3 hours

B. Major Field Courses 66 hours

a. Radiation Therapy

HLPR 2000 – Research in Health Professions

RADS 3190 – Principles of Radiation Therapy

RADS 3301 – Clinical Education I

RADS 3302 – Clinical Education II

RADS 4201 – Radiation Oncology I

RADS 4202 – Radiation Oncology II

RADS 4240 – Radiation Therapy Physics

RADS 4260 – Treatment Planning

RADS 4280 – Quality Management in Radiation Therapy

RADS 4303 – Clinical Education III
 RADS 4304 – Clinical Education IV
 RADS 4304S- Radiation Therapy Synthesis Seminar
 RADS 4305 – Clinical Education V
 RADS 4305S- Radiation Therapy Seminar
 RADS 4430 – Professional Practice Seminar
 One of the following:

RADS 3450 – Leadership in Healthcare **and** RADS 3451 – Leadership Practicum

or

RADS 4450 – Radiography Management and Leadership

b. Nuclear Medicine

HLPR 2000 – Research in Health Professions
 RADS 3100 - Medical Communication Skills
 RADS 3501 – Principles of Nuclear Medicine I
 RADS 3502 – Principles of Nuclear Medicine II
 RADS 3503 – Principles of Nuclear Medicine III
 RADS 3520 – Radiopharmacy and Radiochemistry
 RADS 3531 – Clinical Education I
 RADS 3532 – Clinical Education II
 RADS 4410 – Cross-Sectional Anatomy
 RADS 4430 – Professional Practice Seminar
 RADS 4533 – Clinical Education III
 RADS 4534 – Clinical Education IV
 RADS 4535 – Clinical Education V
 RADS 4540 - Nuclear Medicine Physics and Instrumentation
 RADS 4561 - Nuclear Medicine Synthesis
 RADS 4562 – Nuclear Medicine Seminar
 RADS 4570 - Introduction to PET

One of the following:

RADS 3450 – Leadership in Healthcare **and** RADS 3451 – Leadership Practicum

or

RADS 4450 – Radiology Management and Leadership

Upon completion of 80 semester hours towards the degree, technologists who are graduates of accredited programs and registered by the American Registry of Radiologic Technologists or the Nuclear Medicine Technology Certification Board will be awarded equivalency credit hours in the major. The amount of credit will be based on the technologist's academic record and professional portfolio.

Total Semester Hours

129 hours

C. Regents' Test and Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RADIOLOGIC SCIENCES-(BRIDGE PROGRAM)

A. General Requirements (Core Areas A, B, C, D.2.B., and E) 42 hours

Core Area F 18 hours

BIOL 2081 - Human Anatomy and Physiology I

BIOL 2082 - Human Anatomy and Physiology II

MATH 1113 - Pre-Calculus

Approved Elective

One of the following:

PHSC 1211/1211L - Physical Environment and Lab

PHYS 1111/1111L - Introductory Physics I and Lab I

Physical Education 3 hours

B. Major Field Courses 66 hours

Choose one of the following tracks

a. Clinical Track

HLPR 2000 – Research in Health Professions
 RADS 3100 – Medical Communication Skills
 RADS 3200 – Imaging Pathology
 RADS 3450 – Leadership in Healthcare
 RADS 3451 – Leadership Practicum
 RADS 4410 – Cross Sectional Anatomy
 RADS 4430 – Professional Practice Seminar
 RADS 4175 – Advanced Clinical Education
 RADS 4176 – Specialized Clinical Education

Choose one of the following:

RADS 4111 – Advanced Imaging in MRI
 RADS 4112 – Advanced Imaging in CT
 RADS 4113 – Advanced Imaging in Mammography (limited to radiographers)
 One Approved Elective from the management track

b. Management Track

HLPR 2000 – Research in Health Professions
 RADS 3100 – Medical Communication Skills
 RADS 3200 – Imaging Pathology
 RADS 3450 – Leadership in Healthcare
 RADS 3451 – Leadership Practicum
 RADS 4430 – Professional Practice Seminar
 RADS 4450 – Radiology Management and Leadership
 RADS 4451 – Management Practicum

Choose five courses from the following:

HSCC 2500 – Health Issues & Resources
 HSCC 3110 – Health Law
 HSCC 3130 – Health Policy Issues
 HSCA 3600 – Healthcare Finance
 HSCA 4201 – Health Care Marketing
 HSCA 4640 – Managed Care Concepts
 HSCA 4600 – Principles of Human Resources Management

Upon completion of 80 semester hours towards the degree, technologists who are graduates of accredited programs and registered by the American Registry of Radiologic Technologists or the Clinical Nuclear Medicine Technology Board will be awarded equivalency credit hours in the major. The amount of credit will be based on the technologist's academic record and professional portfolio.

Total Semester Hours

129 hours

C. Regents' Test and Exit Exam

RESPIRATORY THERAPY**Faculty**

Department Head - vacant
 Rhonda Bevis, Director of Clinical Education
 Christine Moore, Instructor

Medical Director:
 Dr. Stephen Morris

Accreditation Statement

The department is accredited by the Committee on Accreditation of Allied Health Educational Programs (CAAHEP) for the period 1997-2008.

General Information

The Department of Respiratory Therapy offers a four-year program leading to the bachelor of science degree in respiratory therapy, as well as a career-ladder program for those already registered as respiratory therapists to obtain their undergraduate degree. A bachelor's degree from an accredited respiratory therapy program qualifies graduates for entry into the advanced practitioner credentialing system, leading to the highest professional credential available in the field of respiratory therapy. The credentialing process is a two-part, nationally administered examination. Part one, a comprehensive written exam, is taken prior to graduation. Graduates who pass this exam will earn the entry level credential "Certified Respiratory Therapist" (CRT), and will be eligible to enter the registry credentialing system. Candidates who pass both registry exams will earn the credential "Registered Respiratory Therapist" (RRT). The CRT credential is required for licensure by the State Board of Medical Examiners. Students must earn their CRT credential prior to graduation.

Special Programs

RRT Career-Ladder Program. The Department of Respiratory Therapy has adopted the career-ladder model as the basis for accepting RRTs into the baccalaureate program. Registered respiratory therapists may advance their education while minimizing duplication of knowledge and skills. Other goals of the career-ladder program are to educate individuals who will be able to contribute to the growth and development of respiratory care as a profession; educate respiratory care providers in a scientific approach to problem-solving and patient care; provide the interpersonal and communication skills needed to work effectively as a member of the interdisciplinary health care team; and foster respect, critical thinking, and a genuine desire for knowledge.

RRTs may receive advanced placement via equivalency credit. (Equivalent credit will be awarded individually based on the candidate's academic transcript and professional portfolio.) Applicants who graduated more than three years before admission will need to validate current practice.

Admission Requirements

Baccalaureate Degree Program. See "Limits on Admission" in the College of Health Professions section of this catalog. Admission to Armstrong Atlantic State University does not guarantee admission to the respiratory therapy program. The department has a separate formal admissions process.

Students are normally admitted to the professional component of the program in the fall. The application deadline is June 1. Applications received after that date will be considered on a space available basis.

Admission to the major is made on a space available basis and is limited to the best qualified students as determined by the admissions committee. Meeting admission criteria does not constitute acceptance into the program. The maximum enrollment ceiling is 20 students. Minimum admission criteria include completion of all core requirements for the major, an adjusted grade point average of 2.00, no more than one grade less than C in courses related to area D or F of the core, and successful completion of the Regents' Test.

RRT Career-Ladder. Candidates for the RRT career-ladder should have an earned associate degree in respiratory therapy, RRT credentials, completion of all baccalaureate core courses, a cumulative grade point average of at least 2.5, and have completed a professional portfolio.

Each candidate is responsible for developing a professional portfolio as part of the application process. Each portfolio should contain verification of RRT credentials, a notarized copy of the associate degree, a resume with complete work history, a current job description, a letter of recommendation from an immediate supervisor, verification of current Georgia license, and documentation of specialty credentials and in-house certifications.

Special Requirements

Criminal Background Checks. Clinical agencies utilized by the Department of Respiratory Therapy may require criminal background checks and/or drug testing prior to acceptance of the

student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be unable to attend clinical courses and therefore may be unable to complete their program of study. Any fees or cost associated with background checks and/or drug testing are the responsibility of the student.

Legal. The Georgia Board of Medical Examiners has the authority to refuse to grant a license to an applicant upon a finding by the board that the applicant has been convicted of any felony, a crime involving moral turpitude, or a crime violating a federal or state law relating to controlled substances or dangerous drugs. Unlicensed students may be employed as long as they work under direct supervision. Students must apply for a temporary permit in order to work following graduation. In order to attain a full license the applicant must be employed under medical direction and have earned a CRT credential. It is a misdemeanor to practice respiratory care or falsely represent oneself as a respiratory care professional unless licensed by the board.

Health and Insurance. Students are required to submit a complete health history form and evidence of health insurance, immunizations, and liability (malpractice) insurance prior to participation in clinical practicums.

Progress Requirements

Students must complete the respiratory therapy program within three consecutive academic years from the date of initial entry. Students who do not complete the program within this time limit must reapply for admission, meet current criteria for admission, and have their previous credits evaluated at the time of their subsequent admission. Students who are readmitted must meet course requirements in effect at the time of readmission.

A grade of C or better is required for each course in the major field of study. A student who earns a grade of less than C must repeat the course the next semester it is offered. Students may repeat a course in the major field of study only once. Students who must repeat more than one course in the major field of study will be dismissed from the program with no option for readmission. Students placed on academic warning who do not raise their grade point average to the minimum criteria for academic good standing the following semester will be suspended from the program. Courses used to raise the grade point average must be approved by the academic advisor. Students suspended from the program are eligible for readmission.

Readmission Requirements

Students must complete readmission applications for Armstrong Atlantic State University and the respiratory therapy major. Students will be required to meet admission and curriculum requirements in effect at the time of readmission, and must complete a comprehensive clinical evaluation prior to readmission. Students are responsible for scheduling such evaluations by the mid-term date of the semester prior to readmission. Readmission to the respiratory therapy major is a faculty decision and will be based on space availability and faculty recommendation.

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RESPIRATORY THERAPY

A. General Requirements (Core Areas A, B, C, D.2.B., and E)	42 hours
Core Area F	18 hours
BIOL 2081 - Human Anatomy and Physiology I	
BIOL 2082 - Human Anatomy and Physiology II	
BIOL 2275 - Microorganisms and Disease	
PHYS 1111 - Introductory Physics I	
or	
PHSC 1211 - Physical Environment	
Approved elective	
Physical Education	3 hours

B. Major Field Courses 61 hours

RESP 2110 - Medical Terminology
RESP 3110 - Patient Assessment
RESP 3120 - Respiratory Care Equipment
RESP 3151C - Clinical Practicum I
RESP 3210 - Clinical Pharmacology
RESP 3220 - Respiratory Care Fundamentals
RESP 3230 - Diagnostic Procedures
RESP 3252C - Clinical Practicum II
RESP 3315 – Principles of Mechanical Ventilation
RESP 3325 – Managing the Ventilator Patient
RESP 3353C - Clinical Practicum III
RESP 4110 - Advanced Ventilatory Support
RESP 4120 - Cardiopulmonary Critical Care
RESP 4130 - Perinatal Care
RESP 4140 – Cardiopulmonary Medicine
RESP 4154C - Clinical Practicum IV
RESP 4215 – Professional Issues in Respiratory Care
RESP 4265C – Clinical Internship

C. Related Field Courses 5 hours

BIOL 3400 - Human Physiology
HLPR 2000 - Introduction to Research in the Health Professions

Total Semester Hours

129 hours**D. Regents' Test and Exit Exams**

College of Liberal Arts

Mark Finlay, Interim Dean
H. Elizabeth Howells, Interim Assistant Dean

Philosophy and Goals

The College of Liberal Arts sits squarely at the center of a central strategic direction of the university, which is “to enhance and develop programs that emphasize critical reading, informed analysis, problem solving, written and oral communication, and other intellectual skills needed for leadership as citizens and professionals.” As each student of the university passes through required core courses and selected elective courses, we aspire not only to provide them with the content necessary to understand our world but to equip them with intellectual tools that will equip them to transform that world.

As students elect to complete any one of the majors and minors in the College of Liberal Arts, we balance these twin goals: to provide the content necessary to be proficient in the discipline and to provide the intellectual skills necessary to be leaders in both the discipline and the larger world. We pursue these goals not only in the traditional, department-centered majors in disciplines, but also in a growing array of interdisciplinary programs. Finally, we contribute to the development of global citizens by facilitating student study at venues around the world.

Because of the rich and varied intellectual resources of our faculty and students and our unique mission as a regional state university, we aspire to serve as cultural and educational change agents within our community and region. Armstrong faculty and students work to achieve this goal through the performing arts, work in Savannah’s historic sites and museums, the analytical and advisory work of entities such as the Center of Regional Analysis, the efforts of our students in their service learning assignments, and the expertise of our faculty made available in public lectures, public writing, media interviews, and consultative efforts.

Organization and Degrees

The College of Liberal Arts includes the Departments of Art, Music, and Theatre; Criminal Justice, Social, and Political Science; Economics; History; Languages, Literature, and Philosophy; and Military Science. In addition, degree programs in Liberal Studies provide an opportunity for broader sampling of the fields listed. The degrees offered in the College of Liberal Arts are as follows:

Associate of Arts

Bachelor of Arts in:

Art

Economics

English

English (Communications)

History with Teacher Certification

Law and Society

Music

Political Science

Spanish

Spanish with Teacher Certification (P-12)

Theatre

Bachelor of Fine Arts in Visual Art

Bachelor of Liberal Studies

Bachelor of Music Education

Bachelor of Science in:

Art Education

Criminal Justice

Master of Arts - History

Master of Arts - Liberal and Professional Studies

Master of Science - Criminal Justice

Those interested in detailed information on graduate programs should refer to the School of Graduate Studies section of this catalog and to the Armstrong Atlantic State University Graduate Catalog.

Additional information on all undergraduate programs and teacher certification options is found in the sections of the appropriate departments. Information on military science and naval science is located in the Special Programs section. Teacher certification programs are offered in cooperation with the College of Education, approved by the Georgia State Professional Standards Commission, and accredited by the National Council for Teacher Education. Detailed information on teacher certification programs is found in the College of Education section of this catalog.

Minors

Departments in the College of Liberal Arts offer a number of minors. Students may include one or more minors in their programs as circumstances permit. Requirements for specific minors are listed in the section for each department. No courses used to satisfy the requirements of core areas A through E can be counted toward a minor. Minors earned are noted on students' transcripts.

Interdisciplinary Programs

The College of Liberal Arts is the home of three interdisciplinary majors (Bachelor of Arts in Gender and Women's Studies, Bachelor of Liberal Studies, Bachelor of Arts in Law and Society) and several interdisciplinary minors and certificates. Each of these programs uses curriculum from several disciplines including, in some cases, curriculum from sister colleges. Complete descriptions of these majors, minors, and certificates are found under Interdisciplinary Programs.

ART, MUSIC, AND THEATRE

Faculty

Tom Cato, Department Head	
James Anderson	John Jensen
Carol W. Benton	Linda Jensen
Elizabeth Desnoyers-Colas	Mark Johnson
Rachel Green	Peter Mellen
Kevin Hampton	Roger Miller
Robert Harris	Steve Primatic
Angela Ryczkowski Horne	Randall Reese
Pang-Chieh Hsu	Lucinda Schultz
Deborah Jamieson	Pamela Zeigler Sears

Accreditation

Programs in music are accredited by the National Association of Schools of Music for the period 2005-2015.

General Information

The Department of Art, Music, and Theatre offers the bachelor of fine arts in visual arts; the bachelor of arts degree with majors in art, music, and drama/speech; the bachelor of music education degree; and in cooperation with the College of Education, the bachelor of science in education in art education.

Special Programs

Directed individual study (DIS) has a distinctly useful place in the art, music, and theatre curriculum. The DIS provides an enrichment experience otherwise unavailable in the classroom. Normally, regular curriculum coursework should not be completed by individual study.

Admission Requirements

College-level study of art, music, and theatre requires considerable background as well as basic proficiency. All entering students in music (including transfer students) must take placement examinations as appropriate in applied music, music theory, and music history. Students wishing to major in art are expected to present a portfolio of previous work in at least one medium. Course work at other institutions in studio art may not be counted towards graduation until a portfolio of artwork is submitted demonstrating competency in areas in which classes have been completed.

Admission to the BFA program requires students to apply to the program after completion of area F with a cumulative grade point average of at least 3.0 and completion of one major supportive course with a grade of C or higher.

Special Requirements

A variety of departmental policies and regulations affects music majors, including requirements for recital attendance, ensemble participation, piano proficiency, recital participation, applied music levels, and the Rising Junior Applied Music Examination. These rules are listed in the *Handbook of Policies and Regulations for Music Majors*, available in the departmental office.

Please see the Fees section of this catalog for information on applied music fees.

Progress Requirements

To earn a bachelor's degree in art, music or drama/speech, students must complete with a grade of C or better all art, music or drama/speech courses required in the program of study. To fulfill

the prerequisites for any art, music or drama/speech course students must obtain a grade of C or better in each prerequisite course.

Minors

Art	18 hours
ARTS 1020 or ARTS 1030	
ARTS 2710 or ARTS 2720	
One lower division studio art course	
Nine semester hours of upper division art courses from the art studio and/or art history areas	
Music	18 hours
MUSC 1100, 1111, 1130	
Three semester hours from: MUSC 1112, 1130, 1300, 1400, 2520, 2540, 2550, 2560	
Nine semester hours from: MUSC 3710, 3720, 4160, 4200, 4210, 4250, or any other upper division music course	
Theatre	15 hours
Three semester hours from: THEA 1100, 1200, 2270, 2410	
Twelve semester hours from: any 3000-4000 level THEA courses	

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN ART

A. General Requirements	
Core Areas A, B, C, D, and E	42 hours
Core Area F	18 hours
ARTS 1010 - Drawing I	
ARTS 1011 - Drawing II	
ARTS 1020 - 2D Design	
ARTS 1030 - 3D Design	
ARTS 2011 - Painting I	
ARTS 2710 - Art History I	
Physical Education	3 hours
B. Major Field Courses	39 hours
ARTS 2012 - Painting II	
ARTS 2040 - Photography	
ARTS 2150 - The Computer in Art	
ARTS 2400 - Introduction to Craft	
ARTS 2720 - Art History II	
ARTS 3130 - Drawing III	
ARTS 3300 - Ceramics I	
ARTS 3400 - Printmaking I	
ARTS 3700 - Figure Sculpture	
ARTS 4720 - Leadership in the Visual Arts	
ARTS 4740 - Senior Exhibition	
ARTS 5750U - Contemporary Art & Criticism	
Two studio courses (3000 and above) from one of the following areas: drawing and painting, sculpture, ceramics, crafts, or photography	
C. Related Field Courses	6 hours
Foreign Language 1002 - Elementary Language II	
Foreign Language 2001 - Intermediate Language I	
D. Electives	15 hours
15 semester hours of courses at the 3000 level or above	
Total Semester Hours	123 hours
E. Regents' Test and Exit Exam	

PROGRAM FOR THE DEGREE OF BACHELOR OF FINE ARTS IN VISUAL ART**A. General Requirements****Core Areas A, B, C, D, and E** 42 hours**Core Area F** 18 hours

ARTS 1010 - Drawing I

ARTS 1011 - Drawing II

ARTS 1020 - 2D Design

ARTS 1030 - 3D Design

ARTS 2011 - Painting I

ARTS 2710 - Art History I

Physical Education 3 hours**Admission to the B.F.A. program (see Admission Requirements)****B. Major Field Courses** 18 hours

ARTS 2012 - Painting II

ARTS 2040 - Photography

ARTS 2150 - The Computer in Art

ARTS 2400 - Introduction to Craft

ARTS 3300 - Ceramics I

ARTS 3400 - Printmaking I

C. Art History Courses 9 hours

ARTS 2720 - Art History II

ARTS 5750U - Contemporary Art & Criticism

ARTS 4890 - Topics in Art History

D. Studio Art Electives 27 hours

27 hours chosen from the following:

ARTS 2110 - Introduction to Graphic Design

ARTS 3030 - Oil Painting

ARTS 3040 - Watercolor Painting

ARTS 3110 - Advanced Graphic Design

ARTS 3130 - Drawing III

ARTS 3140 - Intermediate Photography

ARTS 3150 - Color Photography

ARTS 3170 - Experimentation in Photography

ARTS 3210 - Typography

ARTS 3220 - Corporate Logo and Identity Design

ARTS 3230 - Packaging Design

ARTS 3310 - Pottery Techniques

ARTS 3330 - Ceramic Sculpture

ARTS 3350 - Glaze Experimentation

ARTS 3620 - Jewelry/Enameling

ARTS 3630 - Fabric Design

ARTS 3640 - Weaving

ARTS 3660 - Papermaking

ARTS 3700 - Figure Sculpture

ARTS 3710 - Sculpture Materials

ARTS 3720 - Fiber Sculpture

ARTS 3810 - Introduction to Digital Photography

ARTS 4140 - Figure Drawing

ARTS 4890 - Selected Studies in Art (up to 9 hrs)

ARTS 4900 - Independent Study

D. Capstone Courses	6 hours
ARTS 4750 - B.F.A. Project	
ARTS 4720 - Leadership in the Visual Arts	
ARTS 4740 - Senior Exhibition	

Total Semester Hours	123 hours
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E. Regents' Test and Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN ART EDUCATION

A. General Requirements	
Core Areas A, B, C, D and E	42 hours
Area F	18 hours
ARTS 1010 - Drawing I	
ARTS 1020 - 2D Design	
ARTS 1030 - 3D Design	
ARTS 2710 - Art History I	
EDUC 2110 – Investigating Critical and Contemporary Issues in Education	
EDUC 2130 – Exploring Learning & Teaching	
Physical Education	3 hours

B. Major Field Courses	48 hours
ARTS 1011 - Drawing II	
ARTS 2011 - Painting I	
ARTS 2012 - Painting II	
ARTS 2040 - Photography	
ARTS 2150 - The Computer in Art	
ARTS 2400 - Introduction to Craft	
ARTS 2720 - Art History II	
ARTS 3300 - Ceramics I	
ARTS 3400 - Printmaking I	
ARTS 3700 - Figure Sculpture	
ARTS 5400U - Art in Elementary Grades	
ARTS 5410U - Art in the Middle and Secondary Grades	
ARTS 5430U - Technology in Art Education	
ARTS 5500U - Curriculum and Methods in Art Education	
ARTS 5750U - Contemporary Art and Criticism	
Six semester hours of upper division studio courses from one of the following areas: drawing and painting, sculpture, ceramics, crafts, or photography.	

C. Related Field Courses	21 hours
ARTS 3760 – Internship I – Pre-Student Teaching	
ARTS 4760 – Internship II – Student Teaching	
EDUC 2120 – Exploring Socio-cultural Perspectives on Diversity in Education Contexts	
EDUC 3100 – Technology Applications for Teachers	
EDUC 3300 – Strategies for Teaching Students with Disabilities	

Total Semester Hours	132 hours
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D. Regents' Test, GACE Basic Skills Assessment, admission to candidacy in the Department of Art, Music and Theatre, education teaching portfolio, admission to Internship II, attempt GACE content area examinations, criminal background check, senior exhibition, gallery talk.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN MUSIC**Liberal Arts Option****A. General Requirements Core Areas A, B, C, D, and E 42 hours****Core Area F 18 hours**

MUSC 1111 - Music Theory I

MUSC 1112 - Music Theory II

MUSC 1130 (2 semesters) - Keyboard Harmony

MUSC 1400 (2 semesters) - Applied Music

MUSC 2111 - Intermediate Theory I

MUSC 2130 (1 semester) - Advanced Keyboard Harmony

MUSC 2400 (1 semester) - Applied Music

MUSC 2540 - University Chorale or 2560 (3 semesters) - Wind Ensemble

Physical Education 3 hours**B. Major Field Courses 17 hours**

MUSC 1000 - Recital Attendance (7 semesters)

MUSC 2112 - Intermediate Theory II

MUSC 2130 - Advanced Keyboard Harmony

MUSC 2400 - Applied Music

MUSC 2450 or 2560 - University Chorale or Wind Ensemble

MUSC 2810 - Conducting

MUSC 3710 - Music History I

MUSC 3720 - Music History II

Two courses selected from:

MUSC 3120 - Form & Analysis

MUSC 3610 - Orchestration & Arranging

MUSC 4110 - Composition

MUSC 4120 - Counterpoint

MUSC 4200 - Piano Literature I

MUSC 4210 - Piano Literature II

MUSC 4290 - Art Song

MUSC 4320 - Symphonic Literature

MUSC 5430U - Technology in Music

C. Related Field Courses 12 hours

Foreign Language 1002

Foreign Language 2001

Two courses selected from (at least 3 hours at 3000 level or above):

ARTS 2720 - Art History II

ARTS 5760U - History of Photography

ARTS 5770U - Art and Identity

ARTS 5750U - Contemporary Art & Criticism

D. Elective Courses 31 hours

A maximum of thirteen hours may be in music. (Total hours toward the degree at the 3000 or above level must equal or exceed 39.)

Total Semester Hours 123 hours**E. Regents' Test, General Education Exit Exam, Piano Proficiency Exam****Performance/Composition Options****A. General Requirements Core Areas A, B, C, D, and E 42 hours****Core Area F 18 hours**

MUSC 1111 - Music Theory I

MUSC 1112 - Music Theory II

MUSC 1130 (2 semesters) - Keyboard Harmony

MUSC 1400 (2 semesters) - Applied Music

MUSC 2111 - Intermediate Theory I
 MUSC 2130 (1 semester) - Advanced Keyboard Harmony
 MUSC 2400 (1 semester) - Applied Music
 MUSC 2540 - University Chorale or 2560 (3 semesters) - Wind Ensemble

Physical Education 3 hours

B. Major Field Courses 29 hours

MUSC 1000 - Recital Attendance (7 semesters)
 MUSC 2112 - Intermediate Theory II
 MUSC 2130 - Advanced Keyboard Harmony
 MUSC 2400 - Applied Music
 MUSC 2540 or 2560 - University Chorale or Wind Ensemble
 MUSC 2810 - Conducting
 MUSC 3400 - Applied Music (2 semesters)
 MUSC 3450 - Half Recital
 MUSC 3540/3560 - University Chorale or Wind Ensemble (4 semesters)
 MUSC 3710 - Music History I
 MUSC 3720 - Music History II
 MUSC 3120 - Form & Analysis
 MUSC 3610 - Orchestration & Arranging
 MUSC 4120 - Counterpoint
 MUSC 5430U - Technology in Music

C. Concentration Electives 31 hours

Select one of the following track options:

Keyboard Performance

MUSC 4400 (2 semesters) - Applied Music
 MUSC 4450 - Full Recital
 MUSC 4850 - Senior Project
 MUSC 2580 - Keyboard Accompanying
 MUSC 4200 - Piano Literature I
 MUSC 4210 - Piano Literature II
 MUSC 4250 - Keyboard Pedagogy
 15 hours of music electives, with at least three hours at 3000 level or above

Vocal Performance

MUSC 4400 (2 semesters) - Applied Music
 MUSC 4450 - Full Recital
 MUSC 4850 - Senior Project
 MUSC 2171 - Lyric Diction I
 MUSC 2172 - Lyric Diction II
 Foreign Language 1002
 Foreign Language 2001
 MUSC 4270 - Vocal pedagogy
 11 hours of music electives, with at least seven hours at 3000 level or above.

Winds, Strings or Percussion Performance

MUSC 4160 - Instrumental Pedagogy and Repertoire
 MUSC 4350 - Band Repertoire and Advanced Instrumental Conducting
 MUSC 4400 (2 semesters) - Applied Music
 MUSC 4450 - Full Recital
 MUSC 4850 - Senior Project
 One course appropriate to major instrument selected from:
 MUSC 2360 - Brass Methods
 MUSC 2370 - Woodwind Methods
 MUSC 2380 - Percussion Methods
 MUSC 2390 - String and Guitar Methods

Elective Ensembles - 8 hours

MUSC 2550, 3550, 2510, 3510, 2520, 3520, 2530, 3530, 2540, 3540, 4890 or other approved ensembles.

7 hours of music electives.

Composition

MUSC 4110 (8 semester hours) - Composition

MUSC 4460 - Composition Portfolio

21 hours of Music electives, with at least 8 at the 3000 level or above.

Total Semester Hours

123 hours

E. Regents' Test, General Education Exit Exam, Piano Proficiency Exam, Major Field Exit Exam, Half Recital, and Full Recital (Performance Tracks only)

PROGRAM FOR THE DEGREE OF BACHELOR OF MUSIC EDUCATION

A. General Requirements

Core Areas A, B, C, D, and E **42 hours**

Area F **18 hours**

MUSC 1111 - Music Theory I

MUSC 1112 - Music Theory II

MUSC 1130 (2 semesters) - Keyboard Harmony

MUSC 1400 (2 semesters) - Applied Music

MUSC 2111 - Intermediate Theory I

MUSC 2130 (1 semester) - Advanced Keyboard Harmony

MUSC 2400 (1 semester) - Applied Music

MUSC 2540 (3 semesters) - Concert Choir or 2560 (3 sem) - Wind Ensemble

Physical Education **3 hours**

B. Major Field Courses **32 hours**

MUSC 1000 (7 semesters) - Recital Attendance

MUSC 2112 - Intermediate Theory II

MUSC 2130 (1 semester) - Advanced Keyboard Harmony (in addition to Area F requirement)

MUSC 2360 - Brass Methods

MUSC 2370 - Woodwind Methods

MUSC 2380 - Percussion Methods

MUSC 2390 - String and Guitar Methods

MUSC 2400 (1 semester) - Applied Music (in addition to Area F requirement)

MUSC 2540 - University Chorale (1 semester) or MUSC 2560 (1 semester) - Wind Ensemble (in addition to Area F requirement)

MUSC 2810 - Conducting

MUSC 3120 - Form and Analysis

MUSC 3400 - (2 semesters) - Applied Music

MUSC 3450 - Half Recital

MUSC 3540 - University Chorale or MUSC 3560 (2 semesters) Wind Ensemble (in addition to Area F requirement)

MUSC 3610 - Orchestration and Arranging

MUSC 3710 - Music History I

MUSC 3720 - Music History II

MUSC 5300U - Curriculum and Methods in General Music

MUSC 5430U - Technology in Music

C. Concentration Electives **10 hours**

Select one of the following track options:

Choral

MUSC 2171 - Lyric Diction I

MUSC 4270 - Vocal Pedagogy

MUSC 4360 - Choral Repertoire and Advanced Choral Conducting

MUSC 5340U - Choral Methods

One semester of Instrumental Ensemble selected from MUSC 2510, 2520, or 2560

Instrumental

MUSC 1300 (1 semester of secondary instrument and/or voice) - Applied Music

MUSC 2270 - Class Voice (one semester)

MUSC 4350 - Band Repertoire and Advanced Instrumental Conducting

MUSC 5330U - Band Methods

One semester of choral ensemble:

MUSC 2530 or MUSC 2540 or advisor-approved substitute

Two hours of Music Electives

Elementary

MUSC 1300 (One semester in a secondary area)

MUSC 2171 - Lyric Diction

MUSC 2240 - Class Guitar

MUSC 2270 - Class Voice (one semester)

One course sequence selected from the following:

MUSC 4360 - Choral Repertoire and Advanced Choral Conducting and MUSC 5340U

– Choral Methods

or

MUSC 4350 - Band Repertoire and Advanced Instrumental Conducting and MUSC

5330U – Band Methods

Group Keyboard Pedagogy

MUSC 2270 Class Voice

MUSC 4200 Piano Literature I

MUSC 4210 Piano Literature II

MUSC 4250 Keyboard Pedagogy

MUSC 4251 Group Keyboard Pedagogy

One course selected from the following:

MUSC 5330U – Band Methods

or

MUSC 5340U – Choral Methods

D. Related Field Courses 27 hours

EDUC 2110 – Investigating Critical and Contemporary Issues in Education

EDUC 2120 – Exploring Socio-cultural Perspectives on Diversity in Education Contexts

EDUC 2130 – Exploring Learning & Teaching

EDUC 3300 – Strategies for Teaching Students with Disabilities

EDUC 3100 – Technology Applications for Teachers

MUSC 3760 – Internship I – Pre-Student Teaching

MUSC 4760 – Internship II – Student Teaching

Total Semester Hours

132 hours

E. Regents' Test, GACE Basic Skills Assessment, admission to candidacy in the Department of Art, Music and Theatre, education teaching portfolio, admission to Internship II, attempt GACE content area examinations, criminal background check, piano proficiency exam, half recital.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN THEATRE

A. General Requirements

Core Areas A, B, C, D, and E 42 hours

Area F 18 hours

THEA 2270 (3 semesters) - Theatre Lab

COMM 2280 - Speech Communication

One course selected from:

THEA 1100 - Theatre Appreciation
 THEA 1200 - Introduction to Theatre
 THEA 2410 - Oral Interpretation

One course selected from:

MUSC 1110 - Basic Music Theory
 ARTS 1020 - Two-Dimensional Design
 ARTS 1030 - Three-Dimensional Design
 ENGL 2100 - Literature and Humanities
 ECON 2106 - Principles of Microeconomics*

Two course sequence in a foreign language beyond 1001

*If not taken in Area E, required for Management Track students

Physical Education 3 hours

B. Major Field Courses 51 hours*

THEA 3000 - Acting I
 THEA 3040 - Stagecraft
 THEA 3460 - Play Directing
 THEA 3600 - Script Analysis
 THEA 4950 - Capstone-Senior Thesis/Project (3 sem hours)

***At least 39 hours must be taken at the upper level.**

Track One: Performance Track

12 hours selected from:

THEA 3030 - Creative Dramatics
 THEA 3420 - Acting II
 THEA 3700 - Scene Design, **or** THEA 3750 - Light Design
 THEA 4420 - Acting for the Camera

24 hours selected from 3000 level and above Theatre classes and the following related field courses:

Related Field Courses:

ENGL 3010 - Intro to Literary Studies
 ENGL 5435U - Topics in Drama
 ENGL 5455U - Shakespeare
 FILM 3400 - History of Film
 FILM 3500 - Introduction to Film
 FILM 5010U - Topics in Film
 FILM 5025U - Popular Culture Theory and Criticism
 FILM 5035U - Film Theory and Criticism
 FILM 5510U - Film and Literature
 MUSC 2530 or 3530 - University Singers
 MUSC 2540 or 3540 - University Chorale
 PEBC 1100 - Tumbling and Stunts
 PEBC 1501 - Beginning Modern Dance
 PEBC 1502 - Folk, Social & Contemporary Dancing
 PEBC 1530 - Intermediate Modern Dance
 PEBC 1551 - Basic Ballet
 PEBC 1552 - Intermediate Ballet
 PEBC 1580 - Jazz Dancing
 PEHM 3050 - Theory and Technique of Dance
 SPAN 4080 - Spanish Peninsular Theatre
 SPAN 4090 - Spanish American Theatre
 THEA 1400 - Theatre Voice I
 THEA 1500 - Theatre Voice II

Track Two: Design/Technical Track

12 hours selected from:

- THEA 3700 - Scene Design
- THEA 3750 - Light Design
- THEA 4470 - Stage Manager/Design Lab (must be taken three times)

24 hours selected from 3000 level and above Theatre classes and the following related field courses:

Related Field Courses: Approved ENGL, FILM and SPAN related field courses in Track

One above, and

- ARTS 1010 - Drawing I
- ARTS 1011 - Drawing II
- ARTS 1020 - Two-Dimensional Design
- ARTS 1030 - Three-Dimensional Design
- ARTS 2150 - Computer in Art
- ARTS 2400 - Introduction to Crafts
- ARTS 2710 - Art History I
- ARTS 2720 - Art History II
- ARTS 3130 - Drawing III
- ARTS 3630 - Fabric Design
- ARTS 3710 - Sculpture Materials

Track Three: Management Track

15 hours from:

- COMM 3050 - Interpersonal and Small Group Communications or COMM 3060 - Public Relations
- ECON 2030 - Principles of Financial Accounting
- THEA 3470 - Theatre Management I
- THEA 3570 - Theatre Management II
- THEA 3800 - Video Production I or THEA 4420 - Acting for the Camera

3 hours selected from:

- ENGL 3720 - Business and Technical Communication
- ENGL 5740U - Technical Editing
- ENGL 5750U - Publication Design
- JOUR 3430 - Journalistic Writing and Editing
- JOUR 3470 - Basic TV Production

3 hours selected from:

- ECON 2106 - Principles of Microeconomics
- ECON 3500 - Managerial Economics
- ECON 5111U - Economics of Entrepreneurship I
- ECON 5112U - Economics of Entrepreneurship II

15 hours selected from 3000 level and above Theatre classes and the following related field courses:

Related Field Courses: Approved ENGL, FILM, and SPAN related Field courses noted in Track One above, and

- ARTS 1020 - Two-Dimensional Design
- ARTS 2040 - Introduction to Photography
- ARTS 2110 - Graphic Design
- ARTS 2150 - The Computer in Art
- ARTS 3140 - Intermediate Photography
- ARTS 3800 - Electronic Image Manipulation
- ECON 2106 - Principles of Microeconomics
- ECON 3500 - Managerial Economics
- ECON 5111U - Economics of Entrepreneurship I
- ECON 5112U - Economics of Entrepreneurship II
- ENGL 3720 - Bus And Tech Communication

ENGL 5740U - Technical Editing
 ENGL 5750U - Publication Design
 JOUR 3430 - Journalistic Writing and Editing
 JOUR 3470 - Basic TV Production
 LSLI 3110 - Library Research And Electronic Resources
 PSYC 5200U - Industrial and Organizational Psychology
 PSYC 5300U - Leadership and Group Dynamics

C. Free Electives **9 hours**

Total Semester Hours **123 hours**

D. Regents' Test and Exit Exam

CRIMINAL JUSTICE, SOCIAL AND POLITICAL SCIENCE

Faculty

Zaphon Wilson, Department Head
 Katherine Bennett
 Becky Kohler da Cruz
 José A. da Cruz
 William Daugherty
 Michael Donahue

Corie Hammers
 Junseob Moon
 Dennis Murphy
 Edward Rinalducci
 Daniel Skidmore-Hess

General Information

Leadership in Public Service: The Department of Criminal Justice, Social and Political Science (www.cjsocpols.armstrong.edu) offers bachelor and master of science degree programs in criminal justice, and a bachelor of arts in political science. Internships and practica, designed to foster leadership skills within public service, are available in all programs. Students considering graduate school in political science should take the foreign language option and continue their linguistic study beyond the first intermediate course.

The department endorses the ideal of liberal education and views it as an enlargement of education in related professional areas. As such, all departmental programs and courses are conceptually-based so that students will develop the theoretical sophistication to understand and manage the practical realities of the field. Instructional effectiveness, public service, and scholarly activity are inseparable components of this curricular integrity. The department encourages original research by both faculty and students, and supports community service through such vehicles as the university's Public Service Center.

Special Programs

The criminal justice B.S. program is also offered at the Liberty Center in Liberty County and the Brunswick Center at Coastal Georgia Community College.

Progress Requirements

All department majors must earn a C or better in all courses taken in their discipline and are required to take an exit examination (the Major Field Test for their respective field) prior to graduation. All courses in the minor also require a C or better.

Minors

Cyber Security **18 hours**

The Department of Criminal Justice, Social and Political Science participates in offering an interdisciplinary minor in Cyber Security. See details under "Interdisciplinary Programs" in this catalog.

Criminal Justice	18 hours
CRJU 1100, CRJU 2020, CRJU 3170, CRJU 3300, CRJU 5300U, CRJU 5500U.	
International Studies	18 hours
The Department of Criminal Justice, Social and Political Science participates in offering an interdisciplinary minor in International Studies. See details under "Interdisciplinary Programs" in this catalog.	
Legal Studies	18 hours
POLS 3180, CRJU/POLS 5500U, and any four of the following:	
POLS 3160, POLS 3170, POLS 4150, POLS 4180, CRJU/POLS 5520U, POLS 5230U, CRJU 4500, or CRJU 4510	
Transnational Crime	15 hours
CRJU 1100, CRJU 3120, CRJU 3210, CRJU/POLS 5520U, CRJU/POLS 5130U, or CRJU 5200U	
Political Science	15 hours
Fifteen hours of 3000+ level course work, with at least one course from each of the four areas of concentration:	
American Political Institutions: POLS 3160, POLS 3170, POLS 3180, POLS 4100, POLS 4110, POLS 4160, POLS 4150, POLS/LWSO 4190	
International Affairs: POLS 3210, POLS 5210U, POLS 4200, POLS 5220U, POLS 5290U, POLS 5130U	
Political Theory: POLS 3320, POLS 3350, POLS/SOCI 3360, POLS 4300	
Comparative Government: POLS/SOCI 5450U, POLS 5460U, POLS 5490U, POLS 4400, POLS 5420U	
Sociology	15 hours
SOCI 1101 and 12 credit hours of upper division sociology course work.	

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CRIMINAL JUSTICE

A. General Requirements

Core Areas A, B, C, D, and E	42 hours
Area F	18 hours
CRJU 1100 - Introduction to Criminal Justice	
CRJU 1130 - Interpersonal Communication Skills	
CRJU 2020 - Ethical Theories and Moral Issues in Criminal Justice	
CRJU 2210 - Introduction to Law Enforcement	
One course selected from:	
CRJU 2410 - Introduction to Corrections (Track I or II)	
CSCI 1150 - Fundamentals of the Internet and World Wide Web (Track II only)	
MATH 2200 - Elementary Statistics	
Physical Education	3 hours

Track I: General Criminal Justice

B. Major Field Courses	33 hours
CRJU 3100 - Research Methods	
CRJU 3170 - Criminal Justice Administration	
CRJU 3330 - Criminology	
CRJU 3500 - Criminal Evidence and Procedure	
*CRJU 4800 - Internship (twelve credit hours)	
CRJU 5300U - Juvenile Delinquency	
CRJU 5500U - Law and Legal Process	
Capstone course (one course selected from):	
CRJU 4900 - Directed Research in Criminal Justice	
CRJU 4910 - Seminar in Criminal Justice	
*Students for whom this course is inappropriate may petition to substitute 12 advisor-approved upper division credits appropriate to the Major.	

C. Related Field Courses	6 hours
POLS 2200 - Introduction to American Government	
One course selected from:	
SOCI 1101 - Introductory Sociology	
PSYC 1101 - Introduction to Psychology	
D. Approved electives	6 hours
6 hours of approved electives at the 3000+ level	
E. Free Electives	15 hours
Total Semester Hours	123 hours

Track II: Cybersecurity

B. Major Courses	33 hours
CRJU 3100 – Research Methods	
CRJU 3170 – Criminal Justice Administration	
CRJU 3500 – Criminal Evidence and Procedure	
CRJU 4800* - Internship	
CRJU 5300U – Juvenile Delinquency	
CRJU 5500U – Law and Legal Process	
Capstone courses:	
CRJU 5001U – Cyber Security I	
CRJU 5002U – Cyber Security II	
*When possible, the internship should be completed in the field of cyber security.	
C. Related Field Courses	9 hours
MATH 1111 – College Algebra	
ITEC 1310 – Programming in Visual Basic	
CSCI 2070 – Introduction to Computer Ethics and Cyber Security	
D. Approved Electives	6 hours
6 hours of approved electives at the 3000+ level. If internship is less than 12 credit hours, those hours are to be made up in upper-level (3000+) electives.	
E. Free Electives	12 hours
Total Semester Hours	123 hours

F. Regents' Test and Exit Exam: Area Concentration Achievement Test in Criminal Justice for four-year programs**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN POLITICAL SCIENCE**

A. General Requirements	
Core Areas A, B, C, D, and E	42 hours
Area F	18 hours
MATH 2200 - Elementary Statistics	
POLS 2200 - Introduction to American Government	
Two of the following:	
POLS 1150 - World Politics	
POLS 1200 - Ethics in Government	
POLS 2100 - Introduction to Political Science	
POLS 2290 - Foundations of International Relations	
Six hours of a foreign language sequence numbered 1002 or above or six hours of computer science	
Physical Education	3 hours
B. Major Field Courses	36 hours
Eleven courses from the following with at least one course from each area:	

American Political Institutions

POLS 3160 - Judicial Politics and Strategies
 POLS 3170 - Constitutional Law and the Federal System
 POLS 3180 - Constitutional Civil Liberties
 POLS 3980 - African Americans & the American Political System
 POLS 3990 - Special Topics in Political Science
 POLS 4100 - Independent Study in American Government
 POLS 4110 - American Presidency
 POLS 4150 - American Supreme Court
 POLS 4160 - American Congress
 POLS 4180 - Administrative Law
 CRJU/POLS 5500U - Law and Legal Process

Political Theory

POLS 3320 - American Political Thought
 POLS 3340 - Politics and Ideology in Contemporary Europe
 POLS 3350 - Classics of Political Thought
 POLS 3360/SOCI 3360 - Social Theory
 POLS 3990 – Special Topics in Political Science
 POLS 4300 - Religion and Political Thought
 POLS 5100U - Politics and the Visual Arts
 POLS 5535U - Public Leadership and Ethics in Theory and Practice

International Relations

POLS 3210 - International Relations: East Asia
 POLS 3990 – Special Topics in Political Science
 POLS 4200 - Independent Study in International Relations
 POLS 5210U - International Law
 POLS 5220U - Theory of International Relations
 POLS 5230U - Constitutional Law of Foreign Policy
 POLS 5250U - International Organizations
 POLS 5270U - Intelligence and National Security Policy
 POLS 5280U - Seminar in Global Politics
 POLS 5290U - American Foreign Policy
 POLS 5510U - Third World National Security
 POLS 5530U - Global Environmental Politics
 POLS 5560U - Comparative Foreign Policy
 CRJU/POLS 5130U - Political Terrorism

Comparative Politics

POLS 3470 - Governments of the European Union
 POLS 3990 – Special Topics in Political Science
 POLS 4400 - Independent Study in Comparative Government
 POLS 5260U - Media and Politics in Latin America
 POLS 5430U - Governments of Africa
 POLS 5440U - Latin American Politics
 SOCI/POLS 5450U - Political Sociology of Nationalism
 POLS 5460U - Governments of East Asia
 POLS 5490U - Political Transformation of the Former Soviet Union
 POLS 5560U - Comparative Foreign Policy
 CRJU/POLS 5520U - Comparative Judicial Systems

Capstone course: POLS 4950 - Political Research Methods or CRJU 3100 - Research Methods

C. Electives **24 hours**
 Including a minimum of 15 hours of upper division courses

Total Semester Hours **123 hours**

D. Regents' Exam and Exit Exam: Area Concentration Achievement Test in Political Science

ECONOMICS

Faculty

Yassaman Saadatmand, Department Head
 Richard Cebula, Shirley and Philip Solomons Eminent Scholar
 Richard McGrath
 Michael Toma

General Information

The Department of Economics offers the bachelor of arts degree, as well as a minor in economics. Grounded in the liberal arts tradition, which provides an intellectually diverse educational experience, the degree requires a foundation in economic theory along with a choice of applied courses from several different fields of economics. The applied fields include quantitative methods, financial markets, international economics, economic development, managerial economics, labor economics, and regional economics. Depending on their selection of field courses, graduates are prepared to assume positions in business or government, or pursue professional or post-graduate degrees in business, finance, economics, political science or law. Internships, departmental assistantships and scholarships are available.

Special Programs

An honors program in economics is available.

The Department of Economics offers a certificate program in financial economics. This program offers students the opportunity to obtain a broad understanding of various aspects of financial economics, ranging from capital markets and financial institutions to foreign exchange markets.

The Certificate in Financial Economics can be earned in one of two tracks. First, it can be taken in tandem with a formal undergraduate degree. The second option is the professional track, designed for non-degree students with a professional or occupational interest in financial economics. Individuals are eligible for this track upon presentation of proof of a valid undergraduate degree from an accredited institution. In either case, students should meet with an advisor in order to declare their interest in the certificate program and to plan their course of study.

Under either track, the certificate will be awarded upon successful completion of all of the following courses with a grade of C or better in each.

ECON 2105 - Principles of Macroeconomics	3 hrs
ECON 5300U - Money and Banking	3 hrs
ECON 4100 - Financial Economics: Portfolio Analysis	3 hrs
ECON 4150 - Money and Capital Markets	3 hrs
ECON 5310U - International Finance	3 hrs
One additional course at the 3000 level or above as approved by the Head of the Economics Department.	3 hrs

Undergraduate students following the first track are also required to finish with a cumulative GPA of 2.75 or above. An official certificate and an official notation on the transcript will be awarded upon satisfactory fulfillment of these requirements.

Progress Requirements

Students must earn a grade of C or better in every course required for the major or minor.

Minors

Economics 15 hours

ECON 2105 or 2106

Twelve credit hours selected from: ECON 3050, 3060, 3100, 3450, 3470, 3500, 3600, 3700, 3800, 4100, 4150, 4400, 4410, 4451, 4460, 4500, 4550, 5200U, 5300U, 5310U, 5400U, 5630U.

International Studies 18 hours

The Department of Economics participates in offering an interdisciplinary minor in International Studies. See details under “Special Programs” in this catalog.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN ECONOMICS**A. General Requirements**

Core Areas A, B, C, D, and E 42 hours

Area F 18 hours

ECON 2105 - Principles of Macroeconomics

ECON 2106 - Principles of Microeconomics

MATH 2200 - Elementary Statistics

MATH 1950 - Applied Math or MATH 1161 - Calculus I

Six credit hours from one of the following areas:

Accounting

ACCT 2101 - Principles of Financial Accounting

ACCT 2102 - Principles of Managerial Accounting

Foreign language sequence (1002 and 2001) (required for international track)

Mathematics

MATH 2072 - Calculus II

MATH 2083 - Calculus III

Information Technology

CSCI 1150 – Fundamentals of the Internet and World Wide Web

ITEC 1310 – Programming in Visual Basic

Physical Education 3 hours

Track I: General Economics

B. Major Field Courses 33 hours

ECON 3050 - Intermediate Macroeconomics

ECON 3060 - Intermediate Microeconomics

ECON 3700 – Econometrics

ECON 4900 - Economic Methods and Senior Thesis

Twenty one credit hours drawn from at least three of the following categories:

Global

ECON 3100 - Multinational Economic Enterprises

ECON 4400 - Seminar in Third World Economic Development

ECON 4450 – Comparative Economics

ECON 5200U - International Trade

ECON 5310U - International Finance

Quantitative

ECON 3600 - Mathematical Economics

ECON 3800 - Quantitative Consumer Research

Applied

ECON 3470 - Economics of Health

ECON 3500 - Managerial Economics

ECON 4451 - Industrial Organization

ECON 4460 - Economic Analysis of the Law

ECON 5400U - Economics of Labor

Financial

ECON 4100 - Financial Economics: Portfolio Analysis

ECON 4150 - Money and Capital Markets

ECON 5300U - Money and Banking

Public Policy and Economic History

ECON 3450 - Environmental Economics

ECON 4410 - Regional Economics

ECON 4500 - Public Finance
 ECON 4550 - Public Choice
 ECON 5630U - Economic History of the US

Internships and Specialized Courses

ECON 3950 - Research in Economics
 ECON 3960 - Research in International Economics
 ECON 4520, -30, -40 - Internship (with permission of department head)(maximum of one internship may count toward degree)

C. Related Field Courses 9 hours

ITEC 1050 - Introduction to Computer Concepts or CSCI 1060 - Computer Concepts and Applications

Six credit hours of upper division courses from the following fields:

anthropology, economics, geography, information technology, mathematics, philosophy, political science, psychology, or sociology

Track II: International Economics

The international track requires a language sequence in Area F and at least three credits earned toward the degree in an international study program. Students participating in the international track are expected to choose project, paper, and research topics related to international economics whenever possible.

B. Major Field Courses 33 hours

ECON 3050 - Intermediate Macroeconomics
 ECON 3060 - Intermediate Microeconomics
 ECON 3700 – Econometrics
 ECON 4900 - Economic Methods and Senior Thesis
 ECON 5200U - International Trade
 ECON 5310U - International Finance

Fifteen credit hours drawn from among the following courses:

ECON 3100 - Multinational Economics Enterprises
 ECON 3450 - Environmental Economics
 ECON 3470 – Economics of Health
 ECON 3500 - Managerial Economics
 ECON 3960 – Research in International Economics
 ECON 4100 - Financial Economics: Portfolio Analysis
 ECON 4150 - Money and Capital Markets
 ECON 4400 - Seminar in Third World Economic Development
 ECON 4450 – Comparative Economics
 ECON 4500 - Public Finance
 ECON 5300U - Money and Banking

C. Related Field Courses 9 hours

ITEC 1050 - Introduction to Computer Concepts or CSCI 1060 - Computer Concepts and Applications

Six credit hours of upper division courses outside the economics discipline approved for the International Studies minor.

D. Electives 18 hours

Total Semester Hours 123 hours

E. Regents' Test, university exit exam, and department exit exam

HISTORY

Faculty

June Hopkins, Department Head
Christopher Hendricks, Graduate Coordinator
Olavi Arens
Carol Ebel
Barbara Fertig
Mark Finlay
Michael Hall
Thomas Howard

Michael Price
Jason Tatlock
James Todesca
Nancy White
Learotha Williams

General Information

The Department of History offers the degree of bachelor of arts in history. The degree prepares graduates for entry level employment in such areas as government, public or community service, and business, as well as for graduate study in history and other professional programs (law or business). The curriculum in public history prepares graduates for masters programs as well as entry level employment in the non-profit sector and various cultural resource enterprises. A minor concentration in history enables students to strengthen their research and writing skills and to better understand modern society.

Special Programs

Honors. Completion of HIST 4990 - Senior Thesis in History with a grade of B or better. See department for policies and application.

Brunswick Center. The bachelor's in history is offered in the evenings at the Brunswick Center (Georgia Coastal Community College) - except for HIST 4500, HIST 4960 and 4970, and the seminar courses. These requirements must be completed on campus. The bachelor of liberal studies with a history concentration is also available.

Special Requirements

Students who major in history are required to complete six semester hours of a foreign language sequence, or demonstrate proficiency in a foreign language offered by the university through the first intermediate course. Students should begin their language sequence as soon as possible and certainly not later than their junior year. Students who change majors or transfer may find it necessary to enroll beyond the traditional eight semesters if the degree requirements including foreign language cannot be fulfilled within that time. Students should plan their program of study carefully in consultation with a faculty advisor.

In addition to meeting minimum requirements, students contemplating graduate work in history are strongly advised to continue foreign language study beyond the 2001 level. Students with a double major in which computer science is a language choice may substitute computer science for a foreign language in history.

The program requires HIST 3500 (Foundations), HIST 4500 (Methods), HIST 4900, 4910, 4920, or 4930 (Seminar), and HIST 4960 or 4970 (Historiography). In choosing the remainder of their advanced courses students may choose to concentrate in one particular area of history (e.g. European, American, or non-western), providing they complete at least six hours outside that area.

Progress Requirements

Completion of the major requires students to complete the major field courses with a grade of C or better. A grade of C or better is also required in Foreign Language 1002 and 2001. All minors also require a C or better in each course.

Minors

European Union Studies	18 hours
EURO 2000	
POLS 3470	
Nine hours from the following:	
BIOL 3100, ECON 3200, 3300, 4310, HIST 3330, 3360, 3490, 3990, 4920, 5480U, 5500U, POLS3480	
Capstone seminar	
Consult history department for further requirements.	
History	15 hours
Fifteen hours of 3000, 4000, or 5000U level history courses	
International Studies	18 hours
The Department of History participates in offering an interdisciplinary minor in International Studies. See details under "Special Programs" in this catalog.	
Public History	15 hours
HIST 4500	
HIST 3991	
Nine hours from the following:	
HIST 3800, 3820, 5810U, 5830U, 5850U, 5750U	

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN HISTORY

A. General Requirements

Core Areas A, B, C, D, and E	42 hours
Area F	18 hours
HIST 1111 - Civilization I or HIST 1112/H - Civilization II/Honors (If taken to satisfy core area B or E, substitute an approved global perspectives course.)	
HIST 2111 - History of America to 1877 (If taken to satisfy core area E, substitute a humanities or social science course at the 1000 or 2000 level.)	
HIST 2112 - History of America since 1865 (If taken to satisfy core area E, substitute a humanities or social science course at the 1000 or 2000 level.)	
Foreign Language 1002 - Elementary Language II	
Foreign Language 2001 - Intermediate Language I (Grade of C or better required.)	
One course selected from:	
MATH 1113 - Pre-calculus	
MATH 1161 - Calculus	
MATH 2200 - Elementary Statistics	
CSCI 1150 - Fundamentals of the Internet and World Wide Web	
(If a math or computer science course is taken to satisfy area D, a humanities or social sciences course may be substituted.)	

Physical Education	3 hours
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B. Major Field Courses

Major Field Courses	33 hours
HIST 3500 - Foundations of Historical Studies	
HIST 4500 - Historical Methods	
One course from:	
HIST 4900 - Non-Western History Seminar	
HIST 4910 - Russian History Seminar	
HIST 4920 - European History Seminar	
HIST 4930 - American History Seminar	
One course from:	
HIST 4960 - American Historiography	
HIST 4970 - European Historiography	
One public history course (3000 or above)	
Six other history courses at the 3000 level or above	
Portfolio requirement	

C. Related Field Courses	12 hours
Twelve semester hours chosen from the social sciences and/or the humanities at the 2000 level or above, excluding history. Six of the hours must be at the 3000 level or above. Only three hours may be study abroad fieldwork, i.e., a course with fewer than three contact hours in the classroom.	
D. Electives	15 hours
Total Semester Hours	123 hours
E. Regents' Test and Major Field Exit Exam	

LANGUAGES, LITERATURE, AND PHILOSOPHY

Faculty

David Wheeler, Department Head

Carol Andrews

Christopher Baker

Ellen Blossman

Richard Bryan

Frank Clancy

Thomas Cooksey

William Deaver

Kalenda Eaton

Hans-Georg Erney

Karen Hollinger

Elizabeth Howells

Carol Jamison

Dorothee Mertz-Weigel

Tony Morris

Erik Nordenhaug

Richard Nordquist

Monica Rausch

Gracia Roldán

Deborah Reese

Nancy Remler

Edwin Richardson

Jack Simmons

James Smith

Ana Torres

Dabney Townsend

Joseph Weaver

Teresa Winterhalter

General Information

The Department of Languages, Literature, and Philosophy offers the degree of bachelor of arts with majors in English, English (Communications), Spanish, and Spanish with teacher certification. Minors are available in English, communication, writing, philosophy, linguistics, film, and foreign languages. In addition, the department provides the composition, literature, and philosophy courses required by the core curriculum. Students majoring in English should satisfy core curriculum requirements for the bachelor of arts degree during the freshman and sophomore years.

English Composition Core. Students should begin the required English core sequence in their initial semester of attendance, and must not delay beginning this sequence beyond their second semester of attendance. Students must earn a grade of C or better in ENGL 1101 to qualify for admission to ENGL 1102. ENGL 1101, 1102, and 2100 courses may not be dropped without permission of the department head. Students who drop these courses without department head approval will receive failing grades in the class.

Exemptions from Core English. Students who wish credit exemption for ENGL 1101 must pass the CLEP Freshman College Composition (with Essay) examination with a score of 49 (grade equivalent of a B) as well as pass the essay portion of the test. Students who wish a credit exemption for ENGL 1102 must take the CLEP Analysis and Interpretation of Literature and Essay examination, make a score of at least 55 (grade equivalent of B), and pass the essay portion of the test. Students who score a '3' or higher on the AP exam (English: Language and Composition or Literature and Composition), or who win an NCTE Writing Award, will have their ENGL 1101 requirement waived and will automatically gain entrance into ENGL 1102H. These students are strongly urged to complete their remaining graduation hours by subsequently enrolling in ENGL

2100H and an upper-level writing class such as ENGL 3720 (Technical and Business Communication) or ENGL 4700 (Advanced Composition). Students who score a "5" on either English AP exam (Language and Composition or Literature and Composition) will receive 3 hours of credit for ENGL 1101 and 3 hours of credit for ENGL 1102, provided that they earn a grade of "C" or higher in ENGL 2100.

English Composition Transfer Credit. Transfer students from outside the University System of Georgia who have not yet completed the required English composition (ENGL 1101, 1102) should arrange a placement interview through the departmental office. The interviewer will evaluate student transcripts for English credits, administer the English placement test (if necessary), provide information on the composition sequence and the Georgia Regents' Test, and determine placement in the appropriate composition course.

Foreign Languages. College preparatory curriculum (CPC) deficiency in foreign languages may be fulfilled by successfully completing any of the 1000-level courses in Spanish, French, Latin, or German with a final course grade of C or better. Students who take their foreign language courses on another campus while enrolled at Armstrong Atlantic must pass an appropriate national standardized test with a score not lower than the 60th percentile on each part to receive credit for foreign language 1002 and/or 2001. Students may receive credit by examination for French, German, and Spanish provided they meet requirements listed under Credit by Examination in the section on Admissions. For further information students should contact the department head or the director of the counseling and placement office.

Special Program

Honors. A student may graduate with honors in English by completing a project pursuing a special interest within the discipline. The student will choose a full-time faculty member to direct the project, and he or she must submit a proposal and the finished project for approval to an ad-hoc committee of three full-time faculty members, including the supervising professor. This project may be submitted as the original research project required in ENGL 5990U - Senior Capstone Seminar. To be eligible to apply for honors, the student must have completed at least 15 semester hours of upper-division English courses with a GPA of 3.5 in the major or the permission of the department. The student must submit his or her proposal by mid-term of the semester prior to enrollment in the capstone seminar. After the project is completed, the student will make an oral presentation to the committee and interested members of the department, the Honors Program, and the campus community. Upon approval for honors by the committee, the student's transcript will be designated "Honors in English". The project meets the "Honors in the Major" component for students in the University Honors Program.

Progress Requirements

Students must earn a grade of C or better in each upper-level course included in any major or minor area. A minor must contain 15 to 18 semester hours of course work with at least 9 hours of upper division course work. Courses taken to satisfy core areas A through E may not be counted as course work in the minor.

Students majoring in English are strongly encouraged to take their survey courses (ENGL 2121, 2122, 2131, 2132) early. Survey courses, along with ENGL 3010, should be the main constituent of the first eighteen hours taken in the major. To remain a major in good standing in the program requires a GPA of 2.25 in major courses. After the completion of eighteen hours of major level courses, this average in the field must be maintained. Normally a student would be given one semester to raise his or her average to 2.25 in order to remain in the program.

Minors

English **15-18 hours**
Must include 9 hours of English electives numbered 3000 or above (maximum of 3 hours of 4990)

Communication	15-18 hours
1. Two or three courses from ENGL 3720, 4700, 4740, 4750, 5770U, 5780U FILM 5025 or JOUR 3430	
2. Two or three courses from ENGL 5730U, 5800U, 5820U, JOUR 4000, or FILM 5010U	
Film	15 hours
15 hours of FILM courses numbered 3000 or above	
Foreign Languages	15-18 hours
Must include 9 hours of language electives numbered 3000 or above	
Linguistics	15 hours
ENGL 3010 and twelve hours of approved electives selected from LING 4700, LING 5000, LING 5440, LING 5465, LING 5800, LING 5820, SPAN 4040, SPAN 3050, SPAN 3060, and FREN 3030.	
Philosophy	15-18 hours
Must include 9 hours of philosophy electives numbered 3000 or above	
Writing	15 hours
Must include 15 hours from the following: ENGL 3020, 3720, 4700, 4740, 4750, 5740U, 5750U, 5760U, 5770U, 5780U, JOUR 3270, 3430.	

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN ENGLISH

A. General Requirements

Core Areas A, B, C, D, and E	42 hours
Area F	18 hours
ENGL 2100 or 2100H - Literature and Humanities (unless taken in area C)	
Two courses (three if ENGL 2100 is taken in area C) selected from:	
ENGL 2121 - British Literature I	
ENGL 2122 - British Literature II	
ENGL 2131 - American Literature I	
ENGL 2132 - American Literature II	
Foreign Language 1002 - Elementary Language II	
Foreign Language 2001 - Intermediate Language I	
Foreign Language 2002 - Intermediate Language II	

Physical Education	3 hours
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B. Major Field Courses

Cornerstone Courses	36 hours
ENGL 3010 - Introduction to Literary Studies	
ENGL 5990U - Senior Capstone Seminar	
Historical Period Courses	
Three courses selected from:	
ENGL 5315U - 17th and 18th Century American Poetry and Prose	
ENGL 5325U - 19th Century American Poetry and Prose	
ENGL 5335U - 20th Century American Poetry and Prose	
ENGL 5440U - Early English Literature OR ENGL 5465U - Chaucer	
ENGL 5455U - Shakespeare OR ENGL 5485U - Milton	
ENGL 5480U - Literature of the English Renaissance	
ENGL 5500U - 18th Century British Poetry and Prose	
ENGL 5525U - 19th Century British Poetry and Prose	
ENGL 5535U - 20th Century British Poetry and Prose	
ENGL 5550U - Contemporary Literature	
Literature and Culture Courses	
Two courses selected from:	
ENGL 5200U - Postcolonial Literature	
ENGL 5215U - Literature of the Non-Western World	
ENGL 5225U - Literature of the Western World	
ENGL 5340U - Literature by Women	
ENGL 5350U - African American Literature	

ENGL 5380U - Southern Literature
 ENGL 5550U - Contemporary Literature
 FILM 5025U - Popular Culture Theory/Criticism
 FILM 5510U - Film and Literature

Major Field Electives

Five courses selected from the 3000+ level ENGL/FILM/JOUR courses)

C. Related Field Courses (must include 9 hours numbered 3000 or above) 15 hours

D. Electives 9 hours

Total Semester Hours 123 hours

E. Regents' Test and Exit Exam

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN ENGLISH
 (Communications)**

A. General Requirements

Core Areas A, B, C, D, and E 42 hours

Area F 18 hours

ENGL 2100 - Literature and Humanities (unless taken in area C)

Two courses (three if ENGL 2100 is taken in area C) selected from:

ENGL 2121 - British Literature I

ENGL 2122 - British Literature II

ENGL 2131 - American Literature I

ENGL 2132 - American Literature II

Foreign Language 1002 - Elementary Language II

Foreign Language 2001 - Intermediate Language I

Foreign Language 2002 - Intermediate Language II

Physical Education 3 hours

B. Major Field Courses 36 hours

ENGL 3700 - Introduction to Communications

ENGL 3720 - Business and Technical Communication

ENGL 5730U - Rhetoric

JOUR 3430 - Journalistic Writing and Editing

One course selected from:

ENGL 5740U - Technical Editing

ENGL 5750U - Publication Design

One course selected from:

THEA/COMM 3800 - Introduction to Video Production

JOUR 3270 - Journalism Lab (requires completion of three one-credit courses)

One course selected from:

COMM 3060 - Public Relations

ENGL 4700 - Advanced Composition

JOUR 4000 - Topics in Journalism

One course selected from:

ENGL 4740 - Creative Writing (Poetry)

ENGL 4750 - Creative Writing (Fiction)

One FILM course

Choice of two upper division courses from ENGL, COMM, or FILM

ENGL 4990 - Internship

or

ENGL 5990U - Capstone Course

C. Related Field Courses 15 hours

Courses numbered 3000 or above within the College of Liberal Arts

D. Elective Hours **9 hours**

Total Semester Hours **123 hours**

E. Regents' Test and Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN SPANISH

A. General Requirements

Core Areas A, B, C, D, and E **42 hours**

Area F **18 hours**

SPAN 1002 - Spanish II

SPAN 2001 - Intermediate Spanish I

SPAN 2002 - Intermediate Spanish II

ENGL 2100 - Literature and Humanities (if taken in Area C, replace with elective at 1000-2000 level)

Six semester hours of electives at the 1000-2000 level

Physical Education **3 hours**

B. Major Field Courses **30 hours**

Four to six courses selected from:

SPAN 3031 - Spanish Conversation and Composition I

SPAN 3032 - Spanish Conversation and Composition II

SPAN 3050 - Advanced Grammar and Syntax

SPAN 3060 - Advanced Grammar and Syntax for Native Speakers

SPAN 3111 - Civilization and Culture of Spain

SPAN 3120 - Civilization and Culture of Latin America

SPAN 3200 - Introduction to Literature

Four to six courses selected from the following three categories. Select at least one course from each category. SPAN 4040 must be chosen. A minimum of one other course must be at the 4000 level.

Category One:

SPAN 3210 - Spanish Peninsular Literature I

SPAN 3220 - Spanish Peninsular Literature II

SPAN 4070 - Contemporary Spanish Peninsular Novel

SPAN 4080 - Spanish Peninsular Theatre

SPAN 4100 - Spanish Peninsular Poetry

Category Two:

SPAN 3230 - Spanish American Literature I

SPAN 3240 - Spanish American Literature II

SPAN 4060 - Contemporary Spanish American Novel

SPAN 4090 - Spanish American Theatre

SPAN 4110 - Spanish American Poetry

Category Three:

SPAN 4010 - Special Genre

SPAN 4020 - Special Author

SPAN 4030 - Special Topics

SPAN 4040 - Spanish Phonetics

SPAN 4900 - Independent Study

SPAN 4990 - Language Internship (3 semester hours)

C. Related Field Courses **15 hours**

Fifteen (15) semester hours (minimum) of 3000-4000 level courses from the College of Liberal Arts

D. Electives **21 hours**

Total Semester Hours **123 hours**

E. Regents' Test and Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN SPANISH WITH TEACHER CERTIFICATION

A. General Requirements:

Core Areas A, B, C, D, and E 42 hours

Area F 18 hours

SPAN 1002 - Spanish II

SPAN 2001 - Intermediate Spanish I

SPAN 2002 - Intermediate Spanish II

ENGL 2100 - Literature and Humanities (if taken in area C, replace with elective at 1000-2000 level)

EDUC 2110 - Investigating Critical and Contemporary Issues in Education

EDUC 2120 - Exploring Socio-Cultural Perspectives on Diversity in Education Contexts

Physical Education 3 hours

B. Major Field Courses 30 hours

Four to six courses selected from:

SPAN 3031 - Spanish Conversation and Composition I

SPAN 3032 - Spanish Conversation and Composition II

SPAN 3050 - Advanced Grammar and Syntax

SPAN 3060 - Advanced Grammar and Syntax for Native Speakers

SPAN 3111 - Civilization and Culture of Spain

SPAN 3120 - Civilization and Culture of Latin America

SPAN 3200 - Spanish Peninsular Literature II

Four to six courses selected from the following three categories. Select at least one course from each category. SPAN 4040 must be chosen. A minimum of one other course must be at the 4000 level.

Category One:

SPAN 3210 - Spanish Peninsular Literature I

SPAN 3220 - Spanish Peninsular Literature II

SPAN 4070 - Contemporary Spanish Peninsular Novel

SPAN 4080 - Spanish Peninsular Theatre

SPAN 4100 - Spanish Peninsular Poetry

Category Two:

SPAN 3230 - Spanish American Literature I

SPAN 3240 - Spanish American Literature II

SPAN 4060 - Contemporary Spanish American Novel

SPAN 4090 - Spanish American Theatre

SPAN 4110 - Spanish American Poetry

Category Three:

SPAN 4010 - Special Genre

SPAN 4020 - Special Author

SPAN 4030 - Special Topics

SPAN 4900 - Independent Study

SPAN 4990 - Language Internship

C. Pedagogy Courses 32 hours

EDUC 2130 – Exploring Learning and Teaching

EDUC 3100 – Technology Applications for Teachers

EDUC 3200 – Curriculum, Instruction, and Assessment

EDUC 3300 – Educating Students with Disabilities in the General Education Classroom

EDUC 3400 – Classroom Management Strategies

SPAN 3750 – Internship I – Pre-Student Teaching

SPAN 4750 – Internship II – Student Teaching (12 semester hours)

SPAN 5442U – Content and Methods Spanish Education

Total Semester Hours

125 hours

E. Regents' Test and Exit Exam

College of Science and Technology

George Shields, Dean
Stephen Jodis, Assistant Dean

Philosophy and Goals

The availability of skilled professionals in the areas of science, mathematics and the technologies is a key factor in the growth of any economy. Our state and nation face no more pressing resource issue than the shortage of persons prepared to problem solve and expand basic knowledge in science, technology, engineering and mathematics. These needs of society include a citizenry with excellent knowledge of science and mathematics, well-prepared K-12 classroom teachers enthusiastic about and prepared to teach science and mathematics, and a domestic technological work force that answers the needs of region, state, and nation.

The College of Science and Technology aspires to prepare graduates to meet these needs. With well-designed core courses taken by all students, we can create a generation of college graduates knowledgeable about science and technology. By offering state-of-the-art majors featuring opportunities for undergraduate research and internships, we will deliver significant contributions to the science and technology work force of this century. Finally, by identifying and encouraging significant numbers of students in science, technology, and mathematics who combine competence in discipline with aspiration to communicate what they know, we will produce role models and mentors for our secondary and university classrooms.

Additionally, both because of the rich and varied intellectual resources of our faculty and students and because of our unique mission as a regional state university in a large metropolitan area, we expect to align our efforts with local partners to facilitate positive change within our community and region. Building on an entrepreneurial and collaborative spirit, we will couple support from external agencies with support from partners in the community to build academic programs and scientific and technical infrastructure that will serve as an intellectual motor for sciences and technologies in Southeast Georgia and beyond

Organization and Degrees

The College of Science and Technology includes the Engineering Studies Program and the Departments of Biology, Chemistry and Physics, Computer Science, Information Technology, Psychology, and Mathematics. The degrees offered by the College of Science and Technology include:

- Bachelor of Information Technology
- Bachelor of Science in
 - Applied Physics
 - Biology
 - Chemistry
 - Computer Science
 - Information Technology (on-line, Georgia WebBSIT Consortium)
 - Mathematical Sciences
- Master of Science
 - Computer Science

Additional information on all undergraduate programs is found on the catalog pages of the appropriate department. Those interested in detailed information about graduate programs should refer to the Armstrong Atlantic State University Graduate Catalog

Minors and Certificates

Departments in the College of Science and Technology offer a variety of minors and certificates. Students may include one or more of these additional concentrations in their academic programs as circumstances permit. Requirements for minors and certificates are found on the catalog pages of the appropriate department.

Special Programs

Two certificates are available for students in Information Technology. The Level I certificate (the Certificate of Information Technology with Applications) is 12 credit hours. The Level II certificate (the Certificate of Information Technology with Programming) is 19 credit hours.

BIOLOGY

Faculty

Robert Gregerson, Department Head

Judy Awong-Taylor

Charles Belin

Alexander Collier

Kathryn Craven

Brett Larson

Scott Mateer

Traci Ness

Francis Thorne

Gail Wynn

Jennifer Zettler

General Information

The Department of Biology offers a bachelor of science degree designed to provide students with exposure to traditional and field-oriented biology as well as more modern molecular aspects of biology. Students seeking the bachelor's degree in biology will receive a firm grounding in biology and physical sciences upon which professional careers or additional study can be built. The program is appropriate for students seeking careers in wildlife biology, teaching, research, and for pre-medical, pre-dental, and pre-veterinary students. Flexibility in choosing electives in the major is helpful to students attempting to meet medical, dental, and veterinary school requirements, and the biology major can be obtained while meeting those requirements. By careful choice of electives, it is possible to secure double majors (with chemistry, for example). However, additional credit hours may be needed to complete double majors. Departmental advisors are available to provide information and assistance on all aspects of the bachelor's degree in biology, with the requirements for graduate, medical, dental, and veterinary schools, and with career goals.

Special Programs

Pre-Medical/Pre-Dental/Pre-Veterinary. Students majoring in biology may concurrently complete all pre-medical, pre-dental, and pre-veterinary requirements.

Pre-Forestry Program with the University of Georgia. Students may complete two years of a pre-forestry curriculum at Armstrong Atlantic, then transfer to the University of Georgia. After two additional years of course work, students may receive a bachelor of science in forest resources.

Biology Honors. Students performing independent biological research and submitting acceptable oral and written reports to a departmental committee may be eligible to graduate with departmental honors.

To qualify for this honor, students must have at the time of application: 80-100 semester hours of course work; a minimum college grade point average of 3.3; a minimum biology grade point average of 3.5 with no grade lower than C; and three or more 3000-4000 level courses completed.

The committee will consist of three biology faculty members, and may also include a biologist from outside the university. The committee will examine student proposals before projects are undertaken and will evaluate the completed projects.

Certificates. The Department of Biology participates in offering an interdisciplinary certificate in forensic science and an interdisciplinary post baccalaureate certificate in pre-medical studies. See details under “Interdisciplinary Programs” in this catalog.

Progress Requirements

To be eligible for the B.S. degree in biology, students must have a grade of at least C for all biology courses applied to the major, and must also take the biology subject test of the Graduate Record Exam (GRE), the Medical College Admissions Test (MCAT), or the PRAXIS II/GACE test as an exit exam. The minor also requires a C or better in each course. Students should be aware that 3000-4000 level biology courses may have prerequisites which could increase the total credit hours for the biology minor beyond 18.

Minor

Biology **18 hours**
Eighteen semester hours of biology courses of which 9 semester hours must be numbered 3000 or above

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY

A. General Requirements

Core Areas A, B, C, D, and E **42 hours**

Biology majors are required to take MATH 1113 in core area A and MATH 2200 in core area D

Area F **18 hours**

BIOL 1107 - Principles of Biology I

BIOL 1108 - Principles of Biology II

BIOL 2500 - Modern Biology

CHEM 1211 and 1212 (and labs) - Principles of Chemistry I, II (unless taken to satisfy area D, in which case Biology 2010 and 2020 must be substituted)

Physical Education **3 hours**

B. Major Field Courses **47 hours**

BIOL 2010 - Microbiology (If used to satisfy area F, add a four credit hour elective from biology.)

BIOL 2020 - Survey of the Kingdoms Plantae and Fungi (If used to satisfy area F, add a four credit hour elective from biology.)

BIOL 3000 - Cell Biology

BIOL 3010 - Modern Biology Laboratory

BIOL 3020 - Zoology

BIOL 3700 - Genetics

BIOL 4200 - Mammalian Physiology

BIOL 4700 - General Ecology

BIOL 4800 - Senior Seminar

Total of 18 credit hours from categories 1-3, with at least one 3 credit hour course chosen from each of categories 1 and 2.

Category 1: Cell/Molecular/Physiology

BIOL 3520 - Medical Microbiology

BIOL 3530 - Immunology

BIOL 4000 - Advanced Cellular Physiology

BIOL 4090 - Molecular Biology

BIOL 4310 - Applied Microbiology

BIOL 4400 - Virology

BIOL 4510 - Modern Principles of Development

Category 2: Botany

BIOL 3150 - Horticulture

BIOL 3200 - Taxonomy and Identification of Flowering Plants

BIOL 3230 - Anatomy of the Seed Plants

BIOL 4150 - Plant Physiology
 BIOL 4450 - Morphology of Vascular Plants
 BIOL 4460 - Phytoplankton Ecology

Category 3: Other

BIOL 3300 - Entomology
 BIOL 3310 - Invertebrate Zoology
 BIOL 3410 - Fundamentals of Nutrition
 BIOL 3470 - Environmental Restoration
 BIOL 3580 - Histological Technique
 BIOL 3600 - Salt Marsh Ecology
 BIOL 3750 - Natural History of Vertebrate Animals
 BIOL 3770 - Developmental and Comparative Anatomy of the Vertebrates
 BIOL 3920 - Parasitology
 BIOL 4010 - Evolution
 BIOL 4210 - Comparative Physiology
 BIOL 4220 - Endocrinology
 BIOL 4320 - Environmental Microbiology
 BIOL 4550 - Biology of Marine Organisms
 BIOL 4750 - Tropical Field Biology
 BIOL 4910, -20 - Research I and II (only one research course may be counted as a major elective)
 BIOL 4950, -60 - Internship I and II (only one internship may be counted as a major elective)
 BIOL 4970 - Special Topics (only two special topics may be counted as major electives)

C. Related Field Courses 4-12 hours

CHEM 2101/2101L - Organic Chemistry I

Up to 8 credit hours from the following:

CHEM 2102/2102L - Organic Chemistry II

CHEM 3300 - Instrumental Analysis

CHEM 3801 - Biochemistry I

CHEM 3802 - Biochemistry II

MATH 1161 - Calculus I

PHYS 1111/1111L - Introductory Physics I

PHYS 1112/1112L - Introductory Physics II

PHYS 2211/2211L - Principles of Physics I

PHYS 2212/2212L - Principles of Physics II

D. Electives sufficient to make 123 hours

Students are encouraged to take elective courses which will broaden their educational experience.

Total Semester Hours**123 hours****E. Regents' Test and Exit Exam****PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY
(Physical Therapy Emphasis)****A. General Requirements****Core Areas A, B, C, D, and E 42 hours**

Biology majors in the pre-physical therapy track are required to take MATH 1113 in core area A and MATH 2200 in core area D. Recommended social science core courses (core area E) include PSYC 1101, SOCI 1101 and ANTH 1102. BIOL 1107 and BIOL 1108 should be taken in Area D.

Area F 18 hours

BIOL 2500 - Principles of Modern Biology

BIOL 2010 - Microbiology

BIOL 2020 - Survey of the Kingdoms Plantae and Fungi

CHEM 1211 - Principles of Chemistry I with lab

CHEM 1212 - Principles of Chemistry II with lab

- Physical Education** 3 hours
- B. Major Field Courses** 37 hours
- BIOL 3000 - Cell Biology
- BIOL 3010 - Modern Biology Laboratory
- BIOL 3020 - Zoology
- BIOL 3700 - Genetics
- BIOL 4200 - Mammalian Physiology
- BIOL 4700 - General Ecology
- BIOL 4800 - Senior Seminar
- Total of 16 credit hours from categories 1-3, with at least one 3 credit hour course chosen from each of categories 1 and 2.
- Category 1: Cell/Molecular/Physiology**
- BIOL 3520 - Medical Microbiology
- BIOL 3530 - Immunology
- BIOL 4000 - Advanced Cellular Physiology
- BIOL 4090 - Molecular Biology
- BIOL 4310 - Applied Microbiology
- BIOL 4400 - Virology
- BIOL 4510 - Modern Principles of Development
- Category 2: Botany**
- BIOL 3150 - Horticulture
- BIOL 3200 - Taxonomy and Identification of Flowering Plants
- BIOL 3230 - Anatomy of the Seed Plants
- BIOL 4150 - Plant Physiology
- BIOL 4450 - Morphology of Vascular Plants
- BIOL 4460 - Estuarine Plant Ecology
- Category 3: Other**
- BIOL 3300 - Entomology
- BIOL 3310 - Invertebrate Zoology
- BIOL 3400 - Human Physiology
- BIOL 3410 - Fundamentals of Nutrition
- BIOL 3580 - Histological Technique
- BIOL 3750 - Natural History of Vertebrate Animals
- BIOL 3770 - Developmental and Comparative Anatomy of the Vertebrates
- BIOL 3920 - Parasitology
- BIOL 4010 - Evolution
- BIOL 4210 - Comparative Physiology
- BIOL 4220 - Endocrinology
- BIOL 4320 - Environmental Microbiology
- BIOL 4550 - Biology of Marine Organisms
- BIOL 4750 - Tropical Field Biology
- BIOL 4910, -20 - Research I and II (only one research course may be counted as a major elective)
- BIOL 4950, -60 - Internship I and II (only one internship may be counted as a major elective)
- BIOL 4970 - Special Topics (only two special topics may be counted as major electives)
- C. Related Field Courses** 20 hours
- CHEM 2101/2101L - Organic Chemistry I
- PHYS 1111/1111L - Introductory Physics I
- PHYS 1112/1112L - Introductory Physics II
- BIOL 2081 - Human Anatomy and Physiology I
- BIOL 2082 - Human Anatomy and Physiology II
- D. Electives** 3 hours
- The following courses are highly recommended:
- BIOL 3400 - Human Physiology
- PSYC 3280 - Abnormal Psychology

Total Semester Hours**123 hours****E. Regents' Test and Exit Exam**

CHEMISTRY AND PHYSICS

Faculty

Will Lynch, Department Head

William Baird

Sabitra Brush

Suzanne Carpenter

Brent Feske

Todd Hizer

Leon Jaynes

Tom Jones

Scott Mateer

Catherine MacGowan

Donna Mullenax

Delana Nivens

Clifford Padgett

Joshua Smith

Eric Werner

Richard Wallace

William Zipperer

Accreditation

The chemistry program is approved by the American Chemical Society (ACS), Committee on Professional Training (CPT), 1155 16th St., NW, Washington, DC 20036, telephone 202-872-4600.

General Information

The Department of Chemistry and Physics offers bachelor of science degrees with majors in chemistry and in applied physics. A bachelor of arts degree with a major in chemistry is offered. Minor concentrations are offered in chemistry, physical sciences, and applied physics.

The major in chemistry is designed to give depth in the fields of chemistry, yet is flexible enough to accommodate a range of career goals, including medical, dental, veterinary and pharmacy. The major in applied physics is designed to give a broad foundation in the fields of physics and engineering with enough flexibility to support a range of career goals from industrial employment to graduate work.

Departmental advisors are available to provide information and assistance for students pursuing the bachelor's degree with a major in chemistry or applied physics; and for students who are interested in pre-medicine, pre-pharmacy, pre-veterinary medicine, or pre-dentistry programs.

Special Programs

American Chemical Society Certified Degree. Students majoring in Chemistry may concurrently complete all requirements outlined by the American Chemical Society to receive a B.S. in Chemistry Certified by the Society. See details under Program for the Degree Bachelor of Science in Chemistry with ACS certification in this catalog.

Pre-Medical/Pre-Dental/Pre-Pharmacy/Pre-Veterinary. Students majoring in chemistry may concurrently complete all pre-medical, pre-dental, pre-pharmacy, and pre-veterinary requirements.

Honors in Chemistry. A student may graduate with Honors in Chemistry by completing three credit hours in CHEM 4991 approved by the department's honors committee, maintaining an overall grade point average of 3.5 in all chemistry courses applying to the major, and completing all requirements of the Honors program.

Honors in Physics. A student may graduate with Honors in Physics by successfully completing a research project in PHYS 4900 (Independent Study in Physics, minimum 3 hours credit) including submitting a resulting paper for approval by the department's honors committee; making an oral presentation based on the project to the department; and graduating with an overall grade point average of 3.5 in all physics courses which apply to the major.

Certificates. The Department of Chemistry and Physics participates in offering an interdisciplinary certificate in forensic science and an interdisciplinary post baccalaureate certificate in pre-medical studies. See details under “Special Programs” in this catalog.

Progress Requirements

A grade of C or better in all chemistry courses applied toward the major, and the successful completion of the chemistry exit exam are graduation requirements. If any credit for major or related field courses is transferred from another college, the department may require that it be validated by examination. All minors also require a C or better in each course.

A grade of C or better in all physics courses applied toward the major and the successful completion of the applied physics exit exam are graduation requirements.

Minors

Chemistry	15 hours
Six semester hours of lower division chemistry courses	
Nine semester hours of upper division chemistry courses	
Applied Physics	15 hours
Six semester hours of lower division physics courses	
Nine semester hours of upper division physics courses	
Physical Sciences	15 hours
Six semester hours in chemistry, physical science, or physics	
Nine semester hours selected from: ASTR 3000, GEOL 3100, METR 3100, OCEA 3100	

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN CHEMISTRY

A. General Requirements

Core Areas A, B, C, D, and E **42 hours**
Chemistry majors are required to take MATH 1113 in Core Area A and MATH 1161 in Core Area D

Area F **18 hours**

CHEM 1211 and 1212 (and labs) - Principles of Chemistry I, II (unless taken to satisfy Area D, in which case replace with 8 hours of lower division electives)

Choose one sequence from:

PHYS 1111/1111L - Introductory Physics I and

PHYS 1112/1112L - Introductory Physics II or

PHYS 2211/2211L - Principles of Physics I and

PHYS 2212/2212L - Principles of Physics II

One hour excess for MATH 1161 from Core Area D

One hour lower division approved elective

Physical Education **3 hours**

Track I: Chemistry

B. Major Field Courses **33 hours**

Required (20 Hours)

CHEM 2101/2101L - Organic Chemistry I

CHEM 2102/2102L - Organic Chemistry II

CHEM 2300 - Principles of Chemical Analysis

CHEM 3200 - Inorganic Chemistry

CHEM 3401 - Physical Chemistry I

Approved upper-division electives (13 hours) in the major from:

CHEM 3300 Instrumental Analysis

CHEM 3402 Physical Chemistry II

CHEM 3801 - Biochemistry I

CHEM 3802 Biochemistry II

CHEM 3900 Chemical Research (maximum of 3 credit hours)

CHEM 4100 Advanced Organic Chemistry
CHEM 4200 Advanced Inorganic Chemistry
CHEM 4300 - Advanced Analytical Chemistry
CHEM 4400 - Advanced Physical Chemistry
CHEM 4500 - Chemistry Seminar
CHEM 4940 Special Topics in Chemistry
CHEM 4950 Special Lecture Topics in Chemistry
CHEM 4960 Internship (maximum of 3 credit hours)
CHEM 4991 Advanced Chemical Research (maximum of 3 credit hours)

Transfer credit for similar courses

C. Electives 27 hours

18 hours of upper-division courses

9 hours of free electives

Track II: Biochemistry

B. Major Field Courses 33 hours

Required (30 Hours)

CHEM 2101/2101L - Organic Chemistry I

CHEM 2102/2102L - Organic Chemistry II

CHEM 2300 - Principles of Chemical Analysis

CHEM 3200 - Inorganic Chemistry

CHEM 3300 Instrumental Analysis

CHEM 3401 - Physical Chemistry I

CHEM 3801 - Biochemistry I

CHEM 3802 Biochemistry II

Approved upper-division electives (3 hours) in the major from:

CHEM 3402 Physical Chemistry II

CHEM 3900 Chemical Research (maximum of 3 credit hours)

CHEM 4100 Advanced Organic Chemistry

CHEM 4200 Advanced Inorganic Chemistry

CHEM 4940 Special Topics in Chemistry

CHEM 4950 Special Lecture Topics in Chemistry

CHEM 4960 Internship (maximum of 3 credit hours)

CHEM 4991 Advanced Chemical Research (maximum of 3 credit hours)

Transfer credit for similar courses

C. Related Field Courses 17 hours

BIOL 1107/1107L

BIOL 1108/1108L

BIOL 2500 Principles of Modern Biology (Note: One Hour counted in Area F)

BIOL 3000 Cell Biology

One course selected from:

BIOL 3700 Genetics

BIOL 3530 Immunology

BIOL 4090 Molecular Biology

D. Electives 10 hours

10 hours of upper-division courses

Total Semester Hours

123 hours

E. Regents' Test and Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY**A. General Requirements****Core Areas A, B, C, D, and E 42 hours**

Chemistry majors are required to take MATH 1113 in Core Area A and MATH 1161 in Core Area D

Area F 18 hours

CHEM 1211 and 1212 (and labs) - Principles of Chemistry I, II (unless taken to satisfy Area D, in which case replace with 8 hours of lower division electives)

Choose one sequence from:

PHYS 1111/1111L - Introductory Physics I and

PHYS 1112/1112L - Introductory Physics II or

PHYS 2211/2211L - Principles of Physics I and

PHYS 2212/2212L - Principles of Physics II

One hour excess for MATH 1161 from Core Area D

One hour lower division approved elective

Physical Education 3 hours**B. Major Field Courses 38 hours**

CHEM 2101/2101L - Organic Chemistry I

CHEM 2102/2102L - Organic Chemistry II

CHEM 2300 - Principles of Chemical Analysis

CHEM 3200 - Inorganic Chemistry

CHEM 3300 - Instrumental Analysis

CHEM 3401 - Physical Chemistry I

CHEM 3402 - Physical Chemistry II

CHEM 4500 - Chemistry Seminar

Two courses from:

CHEM 3801 - Biochemistry I

CHEM 4100 - Advanced Organic Chemistry

CHEM 4200 - Advanced Inorganic Chemistry

CHEM 4300 - Advanced Analytical Chemistry

CHEM 4400 - Advanced Physical Chemistry

Two credit hours from:

CHEM 2700, 2900, 3801, 3802, 3900, 4100, 4200, 4300, 4400, 4940, 4950, 4960, or 4991/2/3/4

C. Electives 22 hours

15 hours of upper-division courses from within College of Liberal Arts

7 hours of free electives

Total Semester Hours**123 hours****D. Regents' Test and Exit Exam****Proper course selection will allow the student to pursue any one of the following degree options.****Pre-professional/Biochemistry Option:****B. Major Field Courses 38 hours**

Add CHEM 3801, 3802 - Biochemistry I, II as requirements

C. Related Field Courses 7 hours

BIOL 1107 - Principles of Biology I and BIOL 1108 - Principles of Biology II (one hour counted in Area F)

D. Electives 15 hours

Upper-division courses from chemistry or other subjects within the College of Liberal Arts (15 semester hours)

Pre-Graduate Study Option:

Note: PHYS 2211/2211L and PHYS 2212/2212L is the recommended physics sequence.

C. Related Field Courses 13 hours

MATH 2072 - Calculus II (one hour counted in Area F) and

MATH 2083 - Calculus III and

PHYS 3801/3801L - Optics and Modern Physics as requirements

D. Electives 12 hours

Upper-division courses from chemistry or other subjects within the College of Liberal Arts

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY
WITH AMERICAN CHEMICAL SOCIETY CERTIFICATION****A. General Requirements****Core Areas A, B, C, D, and E** 42 hours

Chemistry majors are required to take MATH 1113 in core area A and MATH 1161 in core area D

Area F 18 hours

CHEM 1211 and 1212 (and labs) - Principles of Chemistry I, II (unless taken to satisfy area D, in which case replace with 8 hours of lower division electives)

PHYS 2211/2211L - Principles of Physics I and

PHYS 2212/2212L - Principles of Physics II

One hour excess for MATH 1161 from core area D (or A)

One hour excess from MATH 2072

Physical Education 3 hours**B. Major Field Courses** 44 hours

CHEM 2101/2101L - Organic Chemistry I

CHEM 2102/2102L - Organic Chemistry II

CHEM 2300 - Principles of Chemical Analysis

CHEM 2700 - Descriptive Chemistry

CHEM 3200 - Inorganic Chemistry

CHEM 3300 - Instrumental Analysis

CHEM 3401 - Physical Chemistry I

CHEM 3402 - Physical Chemistry II

CHEM 3801 - Biochemistry I

CHEM 4500 - Chemistry Seminar

CHEM 4991 - Advanced Chemical Research (3 hours)

Two courses from:

CHEM 4100 - Advanced Organic Chemistry

CHEM 4200 - Advanced Inorganic Chemistry

CHEM 4300 - Advanced Analytical Chemistry

CHEM 4400 - Advanced Physical Chemistry

C. Related Field Course 7 hours

MATH 2072 (1 hour in area F)

MATH 2083

D. Electives 9 hours

9 hours of upper-division electives

Total Semester Hours**123 hours****E. Regents' Test and Exit Exam**

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN APPLIED PHYSICS

A. General Requirements

Core Areas A, B, C, D, and E **42 hours**
 Applied physics majors are required to take MATH 1113 in core area A and MATH 1161 in core area D

Area F **18 hours**

PHYS 2211/2211L, 2212/2212L - Principles of Physics I, II (unless taken to satisfy core area D, in which case replace with 8 hours of lower division electives)

MATH 2072 - Calculus II

MATH 2083 - Calculus III

One hour excess for MATH 1161 from Core Area D

One hour excess for CSCI 1301 or ENGR 1371 from Related Field Courses

Physical Education **3 hours**

B. Major Field Courses

PHYS 3100 - Electric Circuit Analysis

PHYS 3120 - Digital Electronics

PHYS 3210 - Intermediate Mechanics or PHYS 4170 - Advanced Mechanics

PHYS 3300 - Thermodynamics or PHYS 3400 - Chemical Thermodynamics

PHYS 3801/3801L - Optics and Modern Physics and Lab

PHYS 3802 - Intermediate Modern Physics

PHYS 4120 - Scientific Measurement with Digital Interfacing

Nine semester hours from:

PHYS 2900 - Introduction to Research in Physics

PHYS 3220 - Mechanics of Deformable Bodies

PHYS 3230 - Fluid Mechanics

PHYS 3312 - Electromagnetism

PHYS 3500 - Diffraction and Crystallography

PHYS 4900 - Independent Study in Physics

PHYS 4950 - Special Topics in Physics

PHYS 4960 - Physics Internship

PHYS 4991 - Advanced Research in Physics

C. Related Field Courses

CHEM 1211 - Principles of Chemistry I (and lab)

CHEM 1212 - Principles of Chemistry II (and lab)

CSCI 1301 - Introduction to Programming Principles or ENGR 1371 - Computing for Engineers (one hour applies to area F)

ENGL 3720 - Business and Technical Communication

MATH 2160 - Linear Algebra

MATH 3411 - Differential Equations

A three semester-hour upper-division math course (3000 or 4000 level, excluding

MATH 3411), approved by the physics faculty.

D. Electives

Upper-division courses (6 semester hours)

Free elective (1 semester hour)

Total Semester Hours

123 hours

E. Regents' Test and Exit Exam

COMPUTER SCIENCE

Faculty

Ashraf Saad, Department Head
Raymond Greenlaw
Felix Hamza-Lup
Stephen Jodis
Daniel Liang

Joy Reed
Hongjun Su
Ray Tyler-Hashemi
Hong Zhang

Accreditation

The Bachelor of Science in Computer Science degree is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore, MD, 21202-4012, telephone: 410-347-7700.

General Information

Computer scientists are involved with all facets of the design, implementation, and application of computers. They are concerned with problem solving in general, with particular emphasis on developing efficient solutions to problems. This requires a detailed knowledge of the nature of algorithms, the software implementation techniques necessary to use these algorithms on computers, and an understanding of how algorithms may be combined in a systematic manner to produce highly complex software systems.

The program leads to a bachelor of science in computer science, and is designed to prepare students for employment in a wide range of computer-related jobs in a rapidly changing field, or for graduate study in computer science with a broad background in basic mathematics and science, and an introduction to computer hardware. Most courses require significant use of computers, and upper division classes typically contain fewer than twenty-five students to allow for individual instruction.

The Department of Computer Science also provides several computer literacy courses to satisfy the general education needs of Armstrong Atlantic students. Flexibility in the design of the computer science major meets the needs of students with many different interests, and a minor can be planned to complement other majors. Committed to excellence in both teaching and research, the program provides students with an education emphasizing the fundamentals of the field.

Special Programs

Students are able to compete for cooperative education positions and internships at Savannah's high-tech employers such as Gulfstream, Verifone, VeriSign, the Skidaway Institute of Oceanography, and Prologic. Such positions provide students invaluable opportunities to acquire practical experience to complement classroom work. Students receive credit for participation in such programs.

The department offers a Master of Science in Computer Science that second semester seniors may apply to for limited admission status. See the Armstrong Atlantic Graduate Catalog for more information on this program.

Special Requirements

While computer science deals with general problem solving, emphasis is also given to the development of correct and efficient solutions and the expansion of the capability to solve large and complex problems. Success in computer science degree programs requires commitment and a strong aptitude for mathematics.

Progress Requirements

To earn the bachelor's degree with a major or a minor in computer science, students must complete with a grade of C or better all computer science and mathematics courses required in the program of study. To fulfill the prerequisites for any computer science course all students must obtain a grade of C or better in each prerequisite course.

Minor

Computer Science 15 hours

CSCI 1301, CSCI 1302, and nine semester hours from any 3000-5000 level computer science courses, excluding CSCI 3990, and internships.

(A grade of C or better is required in each course used towards a minor.)

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE

A. General Requirements

Core Areas A, B, C, D, E 42 hours

Computer science majors are required to take MATH 1113 in core area A and MATH 1161 in core area D.

Area F 18 hours

One semester hour excess for MATH 1161 from core area D and one semester hour of an approved lower division elective.

One semester hour of approved lower division elective

CSCI 1301 - Introduction to Programming Principles

CSCI 1302 - Advanced Programming Principles

CSCI 2410 - Data Structures and Algorithms

CSCI 2620 - Discrete Structures for Computer Science

MATH 2072 - Calculus II

Physical Education 3 hours

B. Major Field Courses 39 hours

CSCI 2070 - Ethical Considerations in Computer Science

CSCI 2201 - UNIX and Secure Web Development

CSCI 2490 - Object-Oriented Programming in C++

CSCI 3201 - Computer Organization and Architecture I

CSCI 3202 - Computer Organization and Architecture II

CSCI 3321 - Introduction to Software Engineering Concepts

CSCI 3330 - Comparative Languages

CSCI 3341 - Introduction to Operating Systems

CSCI 3510 - Theory of Computation

CSCI 3720 - Database Systems

Two courses in one of the following tracks:

Software Track

CSCI 5220U - Networks

CSCI 5322U - Advanced Software Engineering

CSCI 5520U - Rapid Java Application Development

Systems Track

CSCI 5220U - Networks

CSCI 5342U - Advanced Operating Systems

CSCI 5343U - Systems Programming Under UNIX

Three additional semester hours from 4000 and 5000 level computer science courses.

C. Related Field Courses 15-23 hours

ENGL 3720 - Business and Technical Communication

STAT 3211 - Statistics Applications I

One of the following:

MATH 2160 - Linear Algebra

STAT 3222 - Statistics Applications II

MATH 3411 - Differential Equations

MATH 3460 - Mathematical Modeling and Optimization

MATH 3480 - Optimization and Graph Theory

CSCI 5610U - Numerical Analysis (If used here, may not also be counted as major field course.)

One of the following CAC approved science sequences (unless taken to meet core area D):

BIOL 1107 and 1108 - Biology I, II (and labs)

CHEM 1211 and 1212 - Principles of Chemistry I, II (and labs)

PHYS 2211/2211L and 2212/2212L - Principles of Physics I, II (and labs)

At least six additional semester hours from BIOL 1107, BIOL 1108, CHEM 1211, CHEM 1212, PHYS 2211, PHYS 2212, or any science or engineering course having BIOL 1108, CHEM 1212, or PHYS 2212 as a prerequisite.

D. Free Electives 0-6 hours

Total Semester Hours 123 hours

E. Regents' Test and Exit Exam

ENGINEERING STUDIES

Thomas Murphy, Coordinator

Cameron Coates

Priya Goeser

Wayne Johnson

General Information

The Armstrong Atlantic Engineering Transfer Program. This program offers course work contained in the first two years of the standard curriculum at most accredited engineering schools. After following the suggested course sequence at Armstrong Atlantic, a student should be able to transfer to any engineering school accredited by the Accreditation Board for Engineering and Technology (ABET) and complete the requirements for a baccalaureate degree in a chosen engineering field in a total of four to five years (the typical term for all engineering degrees). The program of study has been constructed with advice from the Georgia Institute of Technology. Students are advised to contact engineering schools of their choice on questions of transfer.

Georgia Tech Regional Engineering Program (GTREP). The Georgia Institute of Technology, in cooperation with Armstrong Atlantic is offering all requirements to complete baccalaureate programs in civil engineering, computer engineering, electrical engineering, environmental engineering, and mechanical engineering. GTREP students take the first two years of course work in the Armstrong Atlantic Engineering Transfer Program, and then upon meeting admissions criteria become Georgia Tech students on the Armstrong campus for their remaining two years. Georgia Tech professors who reside in southeast Georgia or in Atlanta teach GTREP students during the junior and senior years. GTREP results in a Georgia Tech diploma while the student remains at Armstrong Atlantic.

Minors

Engineering Studies 15 hours

ENGR 3100, ENGR 3220, and PHYS 3120, plus six semester hours of lower division engineering courses.

INFORMATION TECHNOLOGY

Faculty

Kam Fui Lau, Interim Department Head
 Azita Bahrami
 Lei He
 Frank Katz

Daniel Lipsa
 Lei Zhu

General Information

Information Technology (IT) professionals are involved with many facets of computer applications. Typical jobs are centered on effective utilization of organizational resources, including hardware, software, and people, and may involve training and trouble-shooting.

The Bachelor of Information Technology degree is designed to prepare students for employment in a wide range of computer-related jobs. IT courses focus on practical aspects of design, deployment, integration, and maintenance of computer systems within an organization. Most courses involve significant use of computers. Class size is typically less than 30, which allows for individual instruction.

The WebBSIT is a Bachelor of Science in Information Technology degree offered online via the Internet. It is a collaborative project of five University System of Georgia colleges and universities. The WebBSIT program reflects the academic standards of the on-site IT department, while providing the convenience and flexibility for busy people who find it difficult to travel to a campus. The program of study provides a solid background in the technical, user-centric and managerial skills required by information technology masters. All WebBSIT students must be enrolled at one of the five WebBSIT institutions. Students, including those from other institutions, who are not following the WebBSIT degree may take a single course as transient students on a space-available basis. Awarding of transfer credit at AASU for these courses is handled in the standard way. The E-tuition rate applies to all WebBSIT courses whether taken singly or as part of the program.

The IT department offers several IT courses which provide an excellent grounding in aspects of information technology that are valuable for anyone working and living in a rapidly-changing information-based society. A minor can be planned as an advantageous adjunct to any degree.

Special Programs

Two levels of Information Technology Certificates are offered by Armstrong Atlantic. These certificates are designed to meet the needs of a wide range of students and employers. The Level 1 (Information Technology with Applications) certificate is an introductory information technology program with a focus on applications. The Level 2 certificate (Information Technology with Programming) includes Level 1 courses plus two additional programming courses.

Level 1 - Information Technology with Applications 12 hours

ITEC 1050 - Computer Concepts and Applications

or

CSCI 1060 - Computer Programming Concepts

CSCI 1150 - Fundamentals of the Internet and World Wide Web

ITEC 1300 - Fundamentals of Information Technology

ITEC 1310 - Programming in Visual Basic

Level 2 - Information Technology with Programming 19 hours

ITEC 1050 or CSCI 1060, CSCI 1150, ITEC 1300, ITEC 1310

CSCI 1301 - Introduction to Programming Principles

CSCI 1302 - Advanced Programming Principles

Progress Requirements

To earn a Bachelors in Information Technology degree, students must complete all information technology, computer science, and mathematics courses required in the program of study with a grade of C or better. To enroll in any information technology course, students must earn a grade of C or better in each prerequisite course. AASU WebBSIT students

Minors

Cyber Security 18 hours

The Department of Information Technology participates in offering an interdisciplinary minor in Cyber Security. See details under “Interdisciplinary Programs” in this catalog.

Information Technology 18 hours

CSCI 1302, ITEC 1300, and ITEC 1310, plus nine semester hours from any 3000-4000 level information technology courses.

(A grade of C or better is required in each course used towards a minor.)

PROGRAM FOR THE DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY

A. General Requirements

Core Areas A, B, C, D, E 42 hours

Area F 18 hours

ITEC 1050 - Computer Concepts and Applications

or

CSCI 1060 - Computer Programming Concepts

CSCI 1150 - Fundamentals of the Internet and World Wide Web

CSCI 1301 - Introduction to Programming Principles

ITEC 1300 - Fundamentals of Information Technology

ITEC 1310 - Programming in Visual Basic

And one of the following:

MATH 1161 - Calculus I

MATH 1950 - Applied Math for Non-Science Majors

MATH 2200 - Elementary Statistics

CSCI 2620 - Discrete Structures in Computer Science

Physical Education 3 hours

B. Major Field Courses 39 hours

CSCI 1302 - Advanced Programming Principles

CSCI 2070 - Ethical Considerations in Computer Science

ITEC 2530 - Operating Systems

ITEC 3500 - Database Administration

ITEC 3600 - Systems Analysis and Design

ITEC 3710 - E-commerce

ITEC 3800 - Data Communications and Networks

ITEC 4390 - Senior Project (6 hours)

ITEC 4770 - Client/Server Systems

ITEC 4800 - Network Design and Administration

ITEC 4830 - Graphics Design

ITEC 5001U – Cyber Security I

ITEC 5002U Cyber Security II

C. Related Field Courses 9-15 hours

ECON 2030/2040 - Principles of Accounting I/II

or

ECON 2105/2106 - Principles of Macroeconomics/Microeconomics

ENGL 3720 - Business and Technical Communication

MATH 1111 - College Algebra (if not taken in core area A)

MATH 1113 - Pre-Calculus Mathematics (if not taken in core area A or D)

D. Electives 6-12 hours

At least six hours of electives must be courses numbered 3000 or above.

Total Semester Hours 123 hours

E. Regents' Test and Exit Exam

PROGRAM FOR THE DEGREE OF WEB BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

A. General Requirements

Core Areas A, B, C, D, E 42 hours

All Bachelor of Science in Information Technology Core Curriculum requirements are shown in the suggested degree program.

Area F 18 hours

MATH 1401 - Statistics (through eCore)

or

MATH 2200 - Elementary Statistics

WBIT 1100 - Introduction to Information Technology

WBIT 1310 - Programming and Problem Solving

WBIT 2311 - Programming and Problem Solving II

WBIT 2300 - Discrete Math for Information Technology

WBIT 2000 - The Enterprise and Information Technology

B. Upper Division Major Requirements 42 hours

WBIT 3010 - Technical Communication

WBIT 3110 - Systems Analysis and Design

WBIT 3111 - Information Technology Project Management

WBIT 3200 - Database Design, Development and Deployment

WBIT 3400 - Introduction to Digital Media

WBIT 3410 - Web Application Development

WBIT 3500 - Architecture and Operating Systems

WBIT 3510 - Data Communications and Networking

WBIT 3600 - Introduction to E-Commerce

WBIT 4020 - Professional Practice and Ethics

WBIT 4030 - Senior Project

WBIT 4112 - Systems Acquisition, Integration and Implementation

WBIT 4120 - Human Computer Interaction

WBIT 4520 - Information Assurance and Security

C. Major Concentration 9 hours

Select all 9 hours from the following area:

WBIT - 4601 Customer Relationship Management

WBIT - 4602 IT Seminar

WBIT - 4610 IT Policy and Law

D. Free Electives 9 hours

Total Semester Hours 120 hours

MATHEMATICS

Faculty

Lorrie Hoffman, Department Head

Jane Barnard

Jim Brawner

Mark Budden

Sungkon Chang

Sean Eastman

Paul Hadavas

Sabrina Hessinger

Selwyn Hollis

Ebonee Jarrett-Brown

Gregory Knofczynski

Tim McMillan

Elizabeth Scott-Janda

Jared Schlieper

Carolyn Smith

General Information

The Department of Mathematics offers the degrees of bachelor of science in mathematical sciences. Option 1 of the mathematics major - "mathematics" - prepares students to pursue graduate studies. Option 2 - "applied mathematics" - is a good choice for students preparing for careers in business and industry, intending to attend graduate school in a quantitative area (such as biostatistics, economics, or operations research), or wishing to participate in a dual-degree program in engineering. Option 3 - "mathematics education" - prepares students to teach in public and private secondary schools. This option is an approved program for the Georgia Teacher's Professional Four Year Certificate (T-4).

The department also offers a wide range of services to Armstrong Atlantic students. Several introductory courses are available to satisfy general education needs as well as prerequisites in other major programs. Intermediate level courses for non-majors are available to enhance the quantitative skills of students in a variety of disciplines. A minor in mathematics or in statistics can be designed to complement students' major programs.

Special Programs

Dual Degree Program. Under arrangements with Georgia Tech, students may in five years of study earn simultaneously the bachelor's degree in the mathematical sciences from Armstrong Atlantic and the bachelor's degree in any one of a number of fields of engineering from Georgia Tech. Armstrong Atlantic participates in similar programs with other major universities. Students considering a dual degree program should contact an advisor in the Department of Mathematics as soon as possible.

Progress Requirements

To earn the bachelor's degree in the mathematical sciences, students must complete all mathematics courses and all courses in their chosen minor or area of concentration required in the program of study with a grade of C or better. In order to complete the prerequisites for a mathematics course other than MATH 2200 or MATH 2008, the prerequisite courses must be completed with a grade of C or better.

Minors

Mathematics 17 hours

MATH 2072 - Calculus II

MATH 2083 - Calculus III

Nine additional semester hours chosen from MATH 2160 and mathematics or statistics courses numbered 3000 or higher (excluding MATH 3201, 3750, 3911, 3912, 3932, 4961, 4962, 4963, 4750, 5412U and 5911U). STAT courses cannot be used simultaneously for a mathematics and statistics minor.

Statistics 16 hours

MATH 2072 - Calculus II

MATH 2160 - Linear Algebra

Three courses chosen from:

STAT 3211, STAT 3222, STAT 3231, STAT 3232, STAT 3240

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN
MATHEMATICAL SCIENCES****A. General Requirements****Core Areas A, B, C, D, and E 42 hours**

Mathematics majors are required to take MATH 1113 in core area A and MATH 1161 in core area D

Area F 18 hours

One hour excess for MATH 1161 from area D

MATH 2072 - Calculus II

MATH 2083 - Calculus III

MATH 2160 - Linear Algebra

CSCI 1301 - Introduction to Programming Principles

Three hours of approved lower division electives

Physical Education 3 hours**Complete major field and related area requirements for one of the following options:****Option 1: Mathematics****B. Major Field Courses 27 hours**

MATH 3000 - Introduction to Mathematical Proof

MATH 3110 - Abstract Algebra

STAT 3231 - Mathematical Statistics I

MATH 3411 - Differential Equations

MATH 4011 - Advanced Calculus I

One course selected from:

MATH 3170 - Advanced Linear Algebra

MATH 4022 - Advanced Calculus II

MATH 5160U - Theory of Numbers

Nine semester hours of upper-division mathematics or statistics courses exclusive of MATH 3201, 3750, 3911, 3912, 3932, 4750, 4961, 4962, 4963, 5412U and 5911U

C. Related Field Courses 18 hours

Six semester hours from either a single foreign language sequence or six semester hours from computer science courses with a prerequisite of at least CSCI 1301.

Twelve semester hours chosen from courses in the College of Science and Technology or the College of Liberal Arts to complete the requirement of at least 39 semester hours of upper-division courses.

D. Electives 15 hours**Option 2: Applied Mathematics****B. Major Field Courses 21 hours**

MATH 3000 - Introduction to Mathematical Proof

STAT 3211 - Probability and Statistics Applications I

MATH 3411 - Differential Equations

One course selected from:

MATH 3110 - Abstract Algebra

MATH 3170 - Advanced Linear Algebra

MATH 4011 - Advanced Calculus I

MATH 5160 - Theory of Numbers

Nine semester hours of upper-division mathematics or statistics courses exclusive of MATH 3201, 3750, 3911, 3912, 3932, 4750, 4961, 4962, 4963, 5412U and 5911U

C. Related Field Courses 21-27 hours

CSCI 1302 - Advanced Programming Principles

Complete the prescribed courses in one of the following concentration areas and, if needed, additional courses to complete the requirement of at least 39 semester hours of upper-division courses. These additional courses may be chosen from mathematics, the concentration area, ENGL 3720, or HIST 5640.

Actuarial science:

ECON 2105 or ECON 2106

STAT 3222

MATH 3251 or 3460

MATH 4200

Two courses selected from:

ECON 3050, 3060, 3500, 3600, 3700, or 5300U

Biology: minor in biology**Chemistry:** minor in chemistry**Computer science:** minor in computer science**Economics:** minor in economics**Engineering studies:** minor in engineering studies**Operations research:**

STAT 3222 – Probability and Statistics Applications II

MATH 3251 – Combinatorics

MATH 3460 – Introduction to Operations Research

MATH 3480 – Optimization and Graph Theory

MATH 4400 – Operations Research Seminar

MATH 4610 – Numerical Analysis

Physics: minor in physics**Statistics:**

STAT 3222 – Probability and Statistics Applications II

STAT 3231 - Mathematical Statistics I

STAT 3232 - Mathematical Statistics II

STAT 3240 - Experimental Design

MATH 3251 - Combinatorics

MATH 4610 - Numerical Analysis

D. Electives 12-18 hours**Total Semester Hours 123 hours****E. Regents' Test and Exit Exam****PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN MATHEMATICS
WITH TEACHER CERTIFICATION****A. General Requirements****Core Areas A, B, C, D, and E 42 hours**

Mathematics majors are required to take MATH 1113 in core area A and MATH 1161 in core area D

Area F 18 hours

One hour excess for MATH 1161 from area D

MATH 2072 - Calculus II

MATH 2083 - Calculus III

MATH 2160 - Linear Algebra

CSCI 1301 - Introduction to Programming Principles I

Three hours of approved lower division electives

Physical Education 3 hours**B. Major Field Courses 24 hours**

MATH 3000 - Introduction to Mathematical Proof

MATH 3110 - Abstract Algebra

MATH 3360 - Modern Geometry

MATH 3932 - Mathematical Reasoning and Representation

STAT 3211 - Probability and Statistics Applications I

One course selected from:

MATH 5160U - Theory of Numbers

MATH 5700U - History of Mathematics

Six additional semester hours of upper-division mathematics exclusive of MATH 3201, 3750, 3911, 3912, 3932, 4961, 4962, 4963, 4750, 5412U and 5911U

C. Related Field Courses 38 hours

EDUC 2110 Investigating Critical and Contemporary Issues in Education

EDUC 2120 Exploring Socio-Cultural Perspectives on Diversity in Education Contexts

EDUC 2130 Exploring Learning and Teaching

EDUC 3100 Technology Applications for Teachers

EDUC 3200 Curriculum, Instruction, and Assessment

EDUC 3300 Educating Students with Disabilities in the General Education Classroom

EDUC 3400 Classroom Management Strategies

MATH 3750 Internship I – Pre-Student Teaching

MATH 4750 Internship II – Student Teaching (12 semester hours)

MATH 5412U - Secondary School Curriculum and Methods, Mathematics

Total Semester Hours

125 hours

E. Regents' Test and Exit Exam

PSYCHOLOGY

Faculty

Jane Wong, Department Head

Mirari Elcoro

John Kraft

Jonathan Roberts

Vann Scott

Bradley Sturz

Stephen Taylor

Wendy Wolfe

General Information

The Department of Psychology offers a bachelor's degree in psychology. Minors are available in psychology, mental health, and organizational psychology. Studies have shown that psychology majors have the opportunity to develop strengths in five important areas: critical thinking, problem solving, oral communication, written communication, and interpersonal skills.

The psychology program is based in the research tradition and offers preparation for both graduate school and entry into the job market. Besides specific courses required for the degree, students select from a variety of content courses including clinical, developmental, testing, personality, physiological, applied behavior analysis, social, and industrial and organizational psychology. During the senior year, capstone courses include research projects, community internships, and seminar courses.

The Psychology Department has a chapter of Psi Chi, the national honor society in psychology, as well as a psychology club, the E. B. Twitmyer Society, both of which offer students the opportunity to participate in and become informed about psychology-related issues.

Special Programs

An honors section of PSYC 1101 is available, and the department recognizes student achievement by awarding the Stu Worthington Award for academic achievement and the Cindy McCormick Award for Outstanding Service to seniors in psychology.

Progress Requirements

Candidates for the bachelor of arts in psychology must earn a grade of C or better in all courses required in the program, including courses used to complete Area F in the core, and Related Field Courses. All minors also require a C or better in all courses required for the minor.

Minors

Psychology	15 hours
PSYC 1101 or PSYC 1101H - Introduction to Psychology or Honors Introduction to Psychology	
Twelve semester hours of upper division course work	
Mental Health	18 hours
PSYC 1101 or 1101H; 3020, 3160, 3280, 5060U, 5150U	
Organizational Psychology	18 hours
PSYC 1101 or 1101H; 3020, 5060U, 5150U, 5200U, 5300U	

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN PSYCHOLOGY

A. General Requirements

Core Areas A, B, C, D, and E	42 hours
Area F	18 hours

PSYC 1101 or PSYC 1101H - Introduction to Psychology	
PSYC 2000 – Ethics and Values in Psychology	
PSYC 2190 – Careers and Professional Skills in Psychology	
PSYC 2200 - Introduction to Psychological Research	
MATH 2200 – Elementary Statistics	
ITEC 1050, CSCI 1150, ITEC 1310, or another approved course from CSCI/ITEC	
Physical Education	3 hours

B. Major Field Courses

I. All courses in this section:

PSYC 3000 – Human Resource Dev Skills	
PSYC 4000 – Measurement	
PSYC 4100 – History and Systems of Psychology	
PSYC 4130 – Senior Internship	
One course selected from:	
PSYC 5060U – Basic Behavior Principles and Behavior Modification	
PSYC 5200U – Industrial Organizational Psychology	

II. One course selected from:

PSYC 3070 – Perception	
PSYC 3080 – Evolution and Behavioral Science	
PSYC 3090 – Physiological Psychology	
PSYC 3190 – Animal Behavior	
PSYC 3500 – Cognitive Psychology	

III. Two courses selected from:

PSYC 5150U - Conflict Resolution	
PSYC 5200U - Industrial/Organizational Psychology	
PSYC 5300U - Leadership and Group Dynamics	
PSYC 5060U – Basic Behavior Principles and Behavior Modification or PSYC 5061U – Advanced Behavioral Assessment	

IV. One course selected from:

PSYC 3020 – Psychological Testing	
PSYC 3110 - Theories of Personality	
PSYC 3160 - Clinical Psychology	
PSYC 3280 - Abnormal Psychology	
PSYC 5061U- Advanced Behavioral Assessment or PSYC 5062U – Advanced Behavior Change Techniques	

V. One course selected from:

PSYC 3030 - Experimental Social Psychology
 PSYC 3050 - Child Psychology
 PSYC 3100 - Human Sexuality
 PSYC 3800 – Health Psychology
 PSYC 3900 - Psychology of Self
 PSYC 5062U – Advanced Behavior Change Techniques

C. Related Field Courses 12 hours**I. All courses in this section:**

PSYC 3400 – Introduction to Learning
 Foreign Language 1002

II. One sequence from:

Foreign Language 2001 and 2002
 ACCT 2101 and ACCT 2102 – Accounting I and II

D. Electives 18 hours

Six hours upper-division electives (3000+ level)
 Six hours from BIOL– If hours are already satisfied in Area D, then 6 hours are to be added to free electives.
 Six hours free electives

Total Semester Hours**123 hours****E. Regents' Test and Exit Exam**

Interdisciplinary Programs

LAW AND SOCIETY

William Daugherty, Coordinator

General Information

The Law and Society major is an interdisciplinary major that includes the study of law as an academic discipline — which is very different from the professional study of law — in close relationship with critical issues in society. The program of study is intended primarily to attract students who are drawn to (a) public service at some level of government; (b) public service with non-profit or public assistance organizations; or (c) graduate studies in the Social Sciences or Liberal Arts.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN LAW AND SOCIETY

A. General Requirements

Core Areas A, B, C, D, and E 42 hours

Area F 18 hours

MATH 2200 - Elementary Statistics

COMM 2280 - Speech Communication, *or*

CRJU 1130 - Interpersonal Communication Skills

POLS 2100 - Introduction to Political Science, *or*

POLS 2200 - Introduction to American Government

A second Ethics and Values course at the 1000 or 2000 level

Two introductory (1000 and 2000 level) courses from:

ANTH 1102, CRJU 1100, ECON 1150, ECON 2105, ECON 2106, GEOG 2120,

PHIL 2201, PSYC 1101, SOCI 1101, POLS 1150, GWST 1101, if not taken to satisfy Core

Area E

Physical Education 3 hours

B. Major Field Courses 36 hours

In addition to the required courses, select six courses in one of three specialized tracks:

Required Courses

CRJU 3100 - Research Methods *or*

POLS 4950 - Political Research Methods

CRJU/POLS 5500U - Law and Legal Process

POLS 3180 - Constitutional Civil Liberties

LWSO 2000 - Introduction to Law and Society

ENGL 4700 - Advanced Composition

ENGL 5730 - Rhetoric

Track One: Government and Judicial Studies

CRJU 3140 - Political Crimes

CRJU 4510 - Advanced Criminal Law

CRJU 5130U - Political Terrorism

ECON 3450 - Environmental Economics

ECON 4500 - Public Finance

ECON 4550 - Public Choice

ECON 5300U - Money and Banking

HIST 3740 - Women in American History

HIST 5540U - Topics in U.S. Foreign Relations

HIST 5565U - Topics in the History of American Reform

POLS 3160 - American Judicial Politics and Strategies

POLS 3170 - Constitutional Law and the Federal System

POLS 4150 - American Supreme Court
 POLS 4180 - Administrative Law
 POLS/LWSO 4190 – Environmental Law and Regulations

Track Two: Human Behavior and Law

ANTH 3100 - Anthropology of Sex and Gender
 CRJU 3130 - Hate Crimes and Ordered Liberty
 CRJU 3160 - White-Collar and Organized Crime
 CRJU 3180 - Deviance and Social Control
 CRJU/SOCI 3510 - Family Violence
 CRJU 5200U - Alcohol, Drugs, and Criminal Justice
 CRJU 5300U - Juvenile Delinquency
 ECON 5400U - Economics of Labor
 HIST 3640 - American Social History
 PSYC 3030 - Experimental Social Psychology
 PSYC 3110 - Theories of Personality
 PSYC 3280 - Abnormal Psychology
 PSYC 5150U - Conflict Resolution
 PSYC 5200U - Industrial and Organizational Psychology
 SOCI 3200 - Racial and Ethnic Minorities

Track Three: Social Theory and Philosophy

CRJU 3110 - Critical Theories of Criminal Justice
 ENGL 5815U - Literary Theory
 GWST 5700U - Perspectives in Feminist Theory
 PHIL 3150 - 20th Century Philosophy
 PHIL 3200 - Technology, Society, and Human Values
 PHIL 3330 - Philosophy of Religion
 POLS 3320 - American Political Thought
 POLS 3350 - Classics of Political Thought
 POLS/SOCI 3360 – Social Theory
 PSYC 3030 - Experimental Social Psychology
 PSYC 5150U - Conflict Resolution
 SOCI 3150 - Sociology of the Family

C. Approved Electives 6 hours

6 hours of approved electives at the 3000+ level

D. Free Electives 18 hours

E. Regents' Test and Exit Exam

LIBERAL STUDIES

Richard Nordquist, Director

Peggy Williams, Degree Program Assistant

General Information

Liberal Studies associate and baccalaureate degree programs operate under the general guidance of the dean of the College of Liberal Arts and the immediate supervision of the director of Liberal Studies. Two liberal studies degrees are offered: the associate of arts, providing a substantial liberal education as a base for upper-division specialization; and the bachelor of liberal studies, designed primarily for mature students with clearly defined academic and career goals. Faculty advisors from appropriate departments of the university provide curriculum guidance in particular areas of concentration. Working closely with both the liberal studies director and faculty advisors, students prepare individual programs of study consistent with their own plans and expectations. Up to one-fourth of the credit required for the bachelor of liberal studies degree may be satisfied through successful completion of Armstrong Atlantic-approved examinations and university-level independent study courses. To accommodate the needs of nontraditional students, advisement

sessions can be scheduled during weekday evenings, as well as during normal business hours. Interested students should contact the degree program assistant to schedule appointments.

Special Programs

Both the associate of arts and the bachelor of liberal studies degrees are available through the Liberty Center in Hinesville, Georgia. For further information, contact the Armstrong Atlantic counselor at the Liberty Center.

The bachelor of liberal studies degree is also available at the Brunswick Center on the campus of Coastal Georgia Community College in Brunswick, Georgia. Contact the director of the Brunswick Center for more information.

Progress Requirements

To qualify for either the associate of arts or the bachelor of liberal studies degree, a student must earn at Armstrong Atlantic at least 30 semester hours of credit applicable toward the degree.

For the bachelor of liberal studies degree, students must submit degree proposals to the liberal studies director for approval at least two semesters prior to anticipated graduation. No more than two Ds may be earned in the liberal studies area, and all grades in the area of concentration must be C or better.

PROGRAM FOR THE DEGREE OF ASSOCIATE OF ARTS

A. General Requirements (Core Areas A, B, C, D, and E)	42 hours
Physical Education	2 hours
B. Additional Requirements	18 hours
COMM 2280 - Speech Communication	
Fifteen additional semester hours of electives or courses in the area of concentration	
Students planning work toward a baccalaureate degree should select courses that meet listed requirements of that degree program.	
Total Semester Hours	62 hours

C. Regents' Test and Exit Exam

PROGRAM FOR THE DEGREE OF BACHELOR OF LIBERAL STUDIES

A. General Requirements (Core Areas A, B, C, D, and E)	42 hours
Core Area F	18 hours
COMM 2280 - Speech Communication	
One or two courses selected from:	
ARTS 1100 - Art Appreciation	
ARTS 2710 - Art History I	
ARTS 2720 - Art History II	
ARTS 1270/MUSC 1270 - World Art and Music	
MUSC 1100 - Music Appreciation	
PHIL 2201 - Introduction to Philosophy	
PHIL 2251 - Ethics and Contemporary Moral Philosophy	
THEA 1100 - Theatre Appreciation	
THEA 1200 - Introduction to Theatre	
THEA 2410 - Oral Interpretation	
Two foreign language courses beyond 1001 in sequence	
One or two courses selected from:	
ANTH 1102 - Introduction to Anthropology	
CSCI 1060 - Computer Programming Concepts	
ECON 2105 - Principles of Macroeconomics	
ECON 2106 - Principles of Microeconomics	
GEOG 2120 - Cultural Geography	

GWST 1101 - Introduction to Gender and Women's Studies	
HIST 2111 - History of America to 1877	
HIST 2112 - History of American Since 1865	
ITEC 1050 - Introduction to Computer Concepts and Applications	
ITEC 1300 - Fundamentals of Information Technology	
ITEC 1310 - Programming in Visual Basic	
POLS 2100 - Introduction to Political Science	
PSYC 1101/H - Introduction to Psychology/Honors	
SOCI 1101 - Introductory Sociology	
One or two core area D courses (not used for core area D)	
Physical Education	3 hours
B. Major Field Courses	
Minimum of 39 hours at 3000 level or above	
Maximum of 27 hours in any discipline (excluding courses taken under General Requirements)	
No more than two Ds in the Liberal Studies section	
At least 9 of the 18 hours in the Liberal Studies section must be completed at Armstrong Atlantic	
Liberal Studies	18 hours
Must be at 2000 level or above	
Humanities (3-6 hours)	
Choice of:	
Art, literature, history, music, philosophy, theatre	
Social Sciences (3-6 hours)	
Choice of:	
Anthropology, criminal justice, economics, geography, political science, psychology, public history, sociology	
Math, Natural Science, and Technology (3-6 hours)	
Choice of:	
Astronomy, biology, chemistry, computer science, geology, mathematics, meteorology, oceanography, physics	
Communication Arts (3-6 hours)	
Choice of:	
Advanced composition, communications, film, foreign languages, journalism, linguistics, rhetoric, technical and business writing	
Area of Concentration	15-18 hours
Any University System approved minor	
No grade lower than C	
C. Electives	24-27 hours
Total Semester Hours	123 hours
D. Regents' Test and Exit Exam	

GENDER AND WOMEN'S STUDIES PROGRAM

Teresa Winterhalter, Coordinator

The gender and women's studies program offers essential academic perspectives on areas as diverse as literature, history, art, health, and psychology. It is an interdisciplinary field of inquiry that examines men's and women's roles, achievements, and experiences, both historically and across cultures. This program is designed to bring to light valuable information about men and women in the family and at work, in the arts, in politics, and in the sciences—information that traditional scholarship has overlooked. AASU's gender and women's studies program also explores the relationship between cultural definitions of human behavior. It considers the ways class, race, ethnicity, and age shape the female experience; and examines the ways in which gender is socially and culturally constructed rather than determined by biology alone.

Undergraduate students may complete a certificate or minor in Gender and Women's Studies by completing work from the following list of courses approved for the minor and certificate. The undergraduate certificate may also be completed by non-degree seeking students (including those who already hold a baccalaureate degree) who would like to expand their knowledge of women's studies.

PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN GENDER AND WOMEN'S STUDIES

A. General Requirements

Core Areas A, B, C, D, and E 42 hours

Area F 18 hours

GWST 1101 - Introduction to Gender and Women's Studies

GWST 2101 - Gender and Ethics

GWST 2200 - Gender in Global Contexts

Foreign language 1002 (3 credit hours)

Foreign language 2001 (3 credit hours)

ENGL 2100 - Literature and Humanities

Physical Education 3 hours

B. Major Field Courses

Minimum of 39 hours at 3000 level or above

Required Courses in the Major Field 15 hours

GWST 5700U - Feminist Theory

GWST 4900 - Junior/Senior Seminar

GWST/SOCI 5600U - Sociology of Gender

FILM 5040U - Women and Film

HIST 3740 - History of American Women

Additional Major Field Courses

List A: Arts and Humanities (3000 or above) 6 hours

Choose from:

ARTS 5760U - History of Photography

ARTS 5770U - Art and Identity

ENGL 5340U - Literature by Women

GWST 5000U - Topics in Gender and Women's Studies

GWST 5500U - Topics in Women's Leadership

HIST 5660U - Topics in the History of Women and Gender in America

HIST 5670U - Topics in the History of Women and Gender in Europe

List B: Social/Behavioral Sciences and Health Professions (3000 or above) ... 6 hours

Choose from:

NURS 3355 - Women's Health

COMM 5500U - Communication between the Genders

PSYC 3100 - Human Sexuality

PUBH 5570U - Women and Minority Health Issues

PUBH 5575U - Health and Sexuality Education

SOCI 3150 - Sociology of the Family

SOCI 3300 - Social Stratification

SOCI 3800 - Sociology of Sexuality

C. Minor 15-18 hours

A university-approved minor in another area of study.

D. Electives 15-18 hours

Total Semester Hours 123 hours

E. Regents' Test and Exit Exam

Gender and Women's Studies Minor

Gender and Women's Studies 15 hours

Fifteen semester hours from courses approved for the Gender and Women's Studies Minor in addition to those taken to satisfy areas A-E of the core. The courses taken from the approved list must include:

1. At least nine semester hours from courses numbered 3000 or higher
2. Either GWST 1101 or 2101 (but may include both)

Courses approved for the Gender and Women's Studies Minor and Undergraduate Certificate:

ARTS 5760U - History of Photography
 ARTS 5770U - Art and Identity
 ENGL 5340U - Literature by Women
 FILM 5040U - Women and Film
 GWST 1101 - Introduction to Gender and Women's Studies
 GWST 2101 - Ethics, Values, and Gender
 GWST 2200 - Gender in Global Contexts
 GWST 5000U - Topics in Gender and Women's Studies
 GWST 5500U - Topics in Women's Leadership
 GWST/SOCI 5600U - Sociology of Gender
 GWST 5700U - Feminist Theory
 HIST 3740 - History of American Women
 HIST 5660U - Topics in the History of Women and Gender in America
 HIST 5670U - Topics in the History of Women and Gender in Europe
 NURS 3355 - Women's Health
 PSYC 3100 - Human Sexuality
 PUBH 5570U - Women and Minority Health Issues
 PUBH 5575U - Health and Sexuality Education
 SOCI 3150 - Sociology of the Family
 SOCI 3300 - Social Stratification
 SOCI 3800 - Sociology of Sexuality

Undergraduate Certificate in Gender and Women's Studies

Successful completion of the certificate requires twelve semester hours from courses approved for the Undergraduate Gender and Women's Studies Certificate. The courses selected must include at least one of GWST 1101 or GWST 2101, but may include both

Graduate Certificate in Gender and Women's Studies

The Gender and Women's Studies Program also offers a graduate certificate in Gender and Women's Studies. See the AASU Graduate Catalog for details.

INTERNATIONAL EDUCATION PROGRAMS

James Anderson, Director

Study Abroad

Study abroad programs sponsored by AASU and the University System of Georgia provide students with the opportunity to study abroad while earning academic credit toward completion of the degree requirements at their home campus. AASU has summer study abroad programs in Mexico, Chile, Brazil, Thailand, Guyana, Germany, Peru, Ireland, Paris, London, Argentina, Kazakhstan, Denmark, Estonia and St. Petersburg, Russia, while the University System of Georgia

offers summer study programs in countries around the world: England, Canada, Estonia, Israel, Argentina, Brazil, Costa Rica, Mexico, China, Japan, Australia, Ethiopia, Tanzania, the Ivory Coast, France, Germany, Italy, and Spain. In addition, semester and academic year study abroad opportunities are available in several countries.

Studying abroad provides the opportunity to gain appreciation for the cultures and institutions of other peoples, facilitates the development of relevant career skills, and contributes to personal maturity, a sense of independence, self-knowledge, and confidence.

Study abroad programs are open to all undergraduate students; however, certain programs may require the completion of prerequisites. Students in the University System of Georgia who are eligible for financial aid may use that aid toward study abroad programs. A limited number of AASU and Regents' scholarships are available. For further information, contact the Office of International Programs and Student Services (912.344.3128).

International Studies Certificate

Armstrong Atlantic State University, in conjunction with other University System of Georgia institutions and foreign institutions, offers certificates in European Union Studies and Latin American Studies. See the following section for details.

International Studies Minor

International Studies **18 hours**

1. Foreign Language 1002 or 2001 (3 hours)*

*Competency in foreign language through the 1002 level also may be demonstrated through AP exams or CLEP tests

2. Foundation Course (3 hours):**

one of the following:

ECON 1150 - Global Economic Problems

POLS 1150 - World Politics

POLS 2290 - Foundations of International Relations

**If one has already been taken in Area B, student may take one of the other two, or substitute one of those listed below. Courses taken to satisfy Area A through E may not be counted as coursework in the minor. Courses taken in Area F may be counted in the minor.

CRJU 2010 - Universal Justice

ECON 2105 - Principles of Macroeconomics

ECON 2106 - Principles of Microeconomics

EURO 2000 - European Union

GEOG 1100 - World Regional Geography

GEOG 2120 - Cultural Geography

GWST 2200 - Gender in Global Contexts

HUMN 2960 - Foreign Language and Culture

PSYC 2300 - Global Perspectives in Development Psychology

SOCI 1101 - Introductory Sociology

SSCI 2960 - Foreign Language and Culture

***The minor requires 12 hours of upper level coursework. 3 of these hours may be within the section of the major labeled "Major Field."

3. Two International Relations courses from the list below. (6 hours)

ECON 3450 - Environmental Economics

ECON 4400 - Seminar in Third World Economic Development

ECON 5200U - International Trade

ECON 5310U - International Financial Institutions Development

HIST 5100U - Topics in Latin American History

HIST 5300U - History of Russian and Soviet Foreign Policy

HIST 5480U - Topics in European History

HIST 5540U - Topics in U.S. Foreign Relations
POLS 3210 - International Relations: East Asia
POLS 5210U - International Law
POLS 5220U - Theory of International Relations
POLS 5230U - Constitutional Law of Foreign Policy
POLS 5250U - International Organizations
POLS 5260U - Media and Politics in Latin America
POLS 5280U - Seminar in Global Politics
POLS 5290U - American Foreign Policy
POLS 5270U - Intelligence and National Security Policy
POLS/CRJU 5130 - Political Terrorism

4. Two additional Comparative Politics/Area History Studies /International Economics from the list below (6 hours).

ANTH 4401 - Special Topics in Anthropology
ECON 3450 - Environmental Economics
ECON 4400 - Seminar in Third World Economic Development
ECON 5200U - International Trade
ECON 5310U - International Financial Institutions
ENGL 5215U - Literature of the Non Western World
GEOG 5550U - Geography of South Asia
HIST 3110 - History of Latin America Since 1850
HIST 3150 - History of Africa
HIST 3210 - Modern China
HIST 3220 - History of Japan
HIST 3230 - History of the Middle East
HIST 3300 - Modern Russia
HIST 3330 - Modern Germany
HIST 3360 - Modern East Central Europe
HIST 3560 Modern Europe
HIST 4900 - Seminar in Non Western History
HIST 5100U - Topics in Latin American History
HIST 5250U - Topics in Asian History
HIST 5300U - History of Russian and Soviet Foreign Policy
HIST 5480U - Topics in European History
HIST 5500U - Topics in British History
HIST 5540U - Topics in U.S. Foreign Relations
POLS 3340 - Politics and Ideology in Contemporary Europe
POLS 3420 - Governments of the Middle East
POLS 4400 - Independent Study in Comparative Government
POLS 5260U - Media and Politics in Latin America
POLS 5430U - Governments of Africa
POLS 5440U - Latin American Politics
POLS 5460U - Governments of East Asia
POLS 5490U - Political Transformation of the Former Soviet Union
POLS 5510U - Third World National Security
POLS/CRJU 5520 - Comparative Judicial Systems
POLS 5530U - Global Environmental Politics
POLS 5560U - Comparative Foreign Policy
SOCI/POLS 5450U - Political Sociology of Nationalism
SPAN 3111 - Civilization and Culture of Spain
SPAN 3120 - Civilization and Culture of Latin America

AFRICAN AMERICAN STUDIES

General Information

The purpose of African American Studies is to allow students of any ethnic background to recognize and understand the important role African Americans have played in defining and developing American society, to address the implications of being “black” in America, and to experience the artistic endeavors put forth by those of African descent. Its interdisciplinary focus explores areas such as history, literature, politics, religion, the arts, and education, as they relate to the African American experience.

African American Studies Minor

African American Studies 18 hours

AFAS 2000 - Introduction to African American Studies

Must include 9 hours of course work numbered 3000 or above with no more than 6 hours from a single discipline and at least 6 hours from each of the following areas of concentration:

Humanities:

AFAS 4000 - Independent Study in African American Studies

AFAS 5000U - Topics in African American Studies

ENGL 2050 - Africa and the Diaspora

ENGL 5350U - African American Literature

HIST 2100 - The African Diaspora

HIST 3150 - History of Africa

HIST 3900 - African-American History To 1865

HIST 3910 - African-American History Since 1865

HIST 5200U - Topics in African History

HIST 5650U - Topics in African-American History

MUSC 2010 - Understanding Jazz

Social Sciences:

AFAS 4000 - Independent Study in African American Studies

AFAS 5000U - Topics in African American Studies

POLS 3980 - African Americans and the American Political System

POLS 5430U - Governments of Africa

POLS 5510U - Third World National Security

POLS 5560U - Comparative Foreign Policy

PUBH 5570U - Women and Minority Health Issues

SOCI 3200 - Racial and Ethnic Minorities

CYBERSECURITY

General Information

The impact of ubiquitous computing and the Internet calls for rapid changes in computer systems and the criminal justice system at all levels. From threats to national security to banking fraud to simple fraudulent schemes for the unassuming, the “cybersphere” has become the place where crime is committed and must therefore be detected and handled accordingly.

Cyber Security Minor

Cyber Security 18 hours

CSCI 1150 – Fundamentals of the Internet and the World Wide Web

CSCI 2070 – Introduction to Computer Ethics and Cyber Security

One course selected from:

ITEC 1310 – Programming in Visual Basic

CSCI 1302 – Advanced Programming Principles

One course selected from:

CRJU 3300 – Criminology

CRJU 3500 – Criminal Evidence and Procedure

CRJU 3600 – Topics in Criminal Justice

CRJU 5500U – Law and Legal Process

CRJU/ITEC 5001U – Cyber Security I

CRJU/ITEC 5002U – Cyber Security II

LEADERSHIP STUDIES

General Information

This interdisciplinary minor fosters the abilities and essential values necessary to produce effective leaders.

Leadership Studies Minor

Leadership Studies **17 hours**

LEAD 1001, PHIL 2251, COMM 2280, PSYC 5300U

Six semester hours from: COMM 3050, ENGL 3720, GWST 5550U, HSCA 4620, PHIL 3200, POLS 5535U, PSYC 5150U, PSYC 5200U

RELIGIOUS STUDIES

General Information

Religion plays an indisputable role in history, society, politics, philosophy, art, and literature. Accordingly, the systematic study of the role and nature of religion as well as specific religions provides crucial insight into all of these areas.

A minor in Religious Studies helps students to successfully pursue their majors in history, sociology, art and music history, literature, political science, and social work, as well as prepare them for graduate work in those fields.

Religious Studies Minor

Religious Studies **18 hours**

RELI 2100 — World Religions

This minor requires the completion of RELI 2100 plus five upper level (3000+) undergraduate courses either from the list below or as approved by the minor program coordinator:

ANTH 4000 Sorcery, Demons, and Gods

ENGL 3141 Bible as Literature

ENGL 5215U Literature of the Non-Western World

ENGL 5440U Early English Literature

ENGL 5480U Literature of the English Renaissance

ENGL 5485U Milton

HIST 3240 Ancient Israel/Palestine

HIST 3440 Europe in The Middle Ages

HIST 5450U Topics in Medieval History

PHIL 3120 Medieval Philosophy

PHIL 3330 Philosophy of Religion

POLS 4300 Religion and Political Thought

SOCI/POLS 5450U Political Sociology of Nationalism
RELI 4000 Special Topics in Religious Studies
Other Special Topics courses as approved by coordinator

CERTIFICATE PROGRAMS

Certificate in European Union Studies

The European Union Studies Certificate provides an in-depth study of the European Union (EU) and its relationship with the United States and other nations. It is a collaborative program of the University System of Georgia, the European Council, the University of Munich, and the European Union Center of the University System of Georgia. The program is supported by 26 institutions statewide.

The EU Studies Certificate offers a common curriculum open to all university system institutions. The program is housed at the European Union Center at Georgia Institute of Technology. The EU Center is one of ten in the United States officially sanctioned by the European Commission to promote the study of the EU. This sanction enables the certificate program to call upon national and international scholars for course offerings.

A certificate in EU Studies can be taken in tandem with a formal degree program. Students from all academic majors are eligible to participate as long as they possess a minimum 2.75 cumulative GPA. A student may formally apply to enroll in the program after successful completion of the following:

- EURO 2000 - European Union Studies with a grade of C or better
- 30 semester hours of academic credit
- a course in world or western civilization

The certificate is composed of six courses, each worth three semester hours of academic credit, in which students must maintain a 3.0 cumulative GPA upon graduation (see European Union Studies minor in the Department of History). An official certificate and transcript recognition are awarded by a student's home institution for satisfactory fulfillment of the curriculum.

A practicum experience pertaining to the EU must be performed either in the form of an overseas visit or internship. The overseas option is broadly defined and can be accommodated by a wide range of activities, including study or research abroad. The same flexibility applies to the internship, which can be served domestically or internationally. A student's specific practicum experience must be approved by the program's campus representative. Inquire in the Department of History for more information.

The certificate also highlights special achievements by providing a notation of "distinction" in two areas:

- foreign language proficiency (6 semester hours at or above the 2000 level)
- composition of a thesis

Certificate in Forensic Science

As the methodology of criminal investigators becomes more firmly rooted in the natural and physical sciences, it is important that practitioners in the criminal justice system have a better foundation in the sciences and that more persons whose primary training is in science become criminal justice professionals. This certificate builds on strong Armstrong programs in chemistry, biology, and criminal justice to address these needs.

This certificate will be of interest primarily to undergraduate students with majors or minors in biology, chemistry, or criminal justice and to post-baccalaureate students who have substantial academic backgrounds in biology or chemistry. Students will receive a certificate in forensic science when they complete this sequence of biology, chemistry and criminal justice courses:

- BIOL 2500 - Principles of Modern Biology
- BIOL 3010 - Modern Biology Laboratory
- CHEM 2300 - Principles of Chemical Analysis

CHEM 3100 - Forensic Chemistry

CRJU 3200 - Criminalistics, or an internship in forensic science

One additional course taken from:

BIOL 3300, BIOL 3530, BIOL 3200, BIOL 4090, CHEM 2102, CHEM 3300, CRJU 2200

Certificate in Latin American Studies (CLAS)

As a collaborative program of the University System of Georgia and the Americas Council, the Certificate in Latin American Studies provides an in-depth study of Latin America and its relationship with the United States and other nations. The CLAS offers a common curriculum open to all university system institutions. The program recognizes a student's knowledge and understanding of a region of growing importance, both economically and culturally. The course of study is designed to be interdisciplinary and complementary to existing undergraduate programs. Students who satisfy the certificate requirements in their undergraduate degree will be awarded a Certificate in Latin American Studies which will be noted in the student's placement materials and on their transcript.

A certificate in Latin American Studies must be taken in conjunction with a formal degree program. Students from all majors who hold a 2.80 GPA are eligible to participate. A student may formally apply to enroll in the program after successful completion of thirty hours of academic credit and either HIST 3110 - History of Latin America since 1850 or SPAN 3120 - Civilization and Culture of Latin America.

Requirements for the certificate encompass two areas:

Language Area (6 hours)

- 0-6 hours of Spanish or French at the 3000 level or above. These hours may be taken as part of an approved study abroad program as long as the course is beyond the intermediate level.

or

- demonstration of written and oral proficiency in Spanish, Portuguese, French, Haitian Creole, or Quechua. Demonstration of language proficiency above the intermediate level as defined by ACTFL standards through examination, a grade of C or better at the 3000 level, or successful completion of an oral and written examination evaluated by a qualified University System of Georgia faculty member (for Haitian Creole and Quechua).

Latin American Area (12 hours)

One of the following:

HIST 3110 - History of Latin America since 1850

SPAN 3120 - Civilization and Culture of Latin America

Three courses (9 hours) in Latin American Studies, two of which must be from outside the student's major, from the following:

- Any Latin American upper division courses offered in the University System of Georgia
- Six hours may come from courses that have a minimum 25% Latin American component
- No more than six hours from study abroad or internships
- No more than one course may be taken at the 1000-2000 level

All courses, study abroad programs, and internships must be approved by the director of International Education (Dr. James Anderson) or the campus CLAS Coordinator (Dr. Bill Deaver). All courses require a grade of C or better.

Honors Option. A student may receive an Honors Certificate in Latin American Studies if he or she maintains an overall GPA of 2.8 and a GPA of 3.5 in all CLAS courses, and submits a senior honors paper on a Latin American topic to a faculty member in that field. The paper must receive a B+ or better.

Post Baccalaureate Certificate in Pre-Medical Studies

Students will receive a post-baccalaureate certificate for pre-Medical studies when they complete this sequence of chemistry, physics, and biology courses:

CHEM 2102 - Organic Chemistry II

CHEM 3801 - Biochemistry I

PHYS 1112 - Introductory Physics II or PHYS 2212 - Principles of Physics II
BIOL 3000 - Cell Biology
BIOL 4200 - Mammalian Physiology
A 2.5 grade point average in these courses

If any of these five courses were taken in the undergraduate program or at another institution, an appropriate substitute must be approved by the pre-Medical Advisor and substituted for the requirement.

Other Certificate Programs

Armstrong Atlantic offers other certificate programs that are administered by individual academic departments. Please see the appropriate departmental section of this catalog for details.

Financial Economics Certificate - Department of Economics
Yamacraw Certificate - Department of Computer Science
Information Technology Certificate - Department of Information Technology
Gerontology Certificate - Department of Health Science
Medical Technology Certificate - Department of Medical Technology
Radiation Therapy Certificate - Department of Radiologic Sciences

Special Programs

ACADEMIC ASSISTANCE PROGRAM (LEARNING SUPPORT)

AASU is committed to helping the non-traditional (delayed admission) student succeed by providing the necessary assistance to reach a level of preparation suitable for university studies. Learning support courses (pre-college preparatory courses) prepare any non-traditional student needing assistance for college level work. Learning support courses are offered in the basic academic areas of reading, English, and mathematics. A full time coordinator/counselor is available to serve students.

Eligibility for learning support courses is determined by the score(s) received on the Computer-adaptive Placement Assessment and Support System (COMPASS). A student may be required to enroll in one or more learning support courses based on the COMPASS results. The passing grade for each exam is determined by the University System of Georgia and/or AASU standards. Students required to take learning support courses must do so during their first semester. Students must make reasonable progress in completing learning support course requirements to continue enrollment at the university. Learning support courses carry institutional credit, but hours earned in those courses do not apply to degree requirements. Students will not be permitted to take any credit courses which require the content or skills of a required learning support course as a prerequisite.

Students who wish to drop a learning support course(s) must follow these guidelines:

- Students enrolled in both credit and a required learning support course may not withdraw from the learning support course unless they also withdraw from credit courses carrying three or more semester hours.
- If a student is enrolled in two or more learning support courses and withdraws from one learning support course, the student may remain enrolled in other learning support courses and in credit courses carrying one or two semester credit hours only.
- After the twelfth week of the semester (fifth week for summer semester only), the student will be allowed to remain in the college-level courses if withdrawn from required learning support courses.

Students who have satisfactory results on the COMPASS may nonetheless elect to enroll in learning support courses. Typically this is done to sharpen essential skills before they are needed in other courses.

More information regarding academic support for non-traditional students, learning support courses, placement exams, registration, readmission, and policies regarding progression requirements is available in the Office of Student Success in Victor Hall.

BASIC LAW ENFORCEMENT CERTIFICATE

Wynn Sullivan, Director

General Information

The Basic Law Enforcement Certificate Program enables students to become candidates for Georgia law enforcement certification. Students wishing to enroll in this certificate program must contact the program coordinator @ 912.344.3222 for information. Academy courses only carry institutional credit.

Admission Requirements

Traditional applicants must have a high school diploma or have satisfactorily completed the GED, and have SAT/ACT scores. Applicants are exempt from CPC requirements, but must take the CPE or COMPASS examinations if SAT/ACT scores are lower than 430 verbal and/or 400 math.

Non-traditional applicants are those who have not attended high school or college within the previous five years and have earned fewer than 15 transferable semester hours of college credit. Such applicants must have a high school diploma or have completed the GED satisfactorily. They are exempt from SAT/ACT and CPC requirements, but CPE or COMPASS examinations are required unless students report SAT/ACT scores at the 430 verbal and 400 math levels or above.

For students who take no courses with a learning support prerequisite in an area (or areas) the learning support requirements in that area (or areas) are not mandatory.

A transfer applicant with fewer than 30 transferable semester hours will be subject to traditional applicant standards unless he or she meets the definition of a non-traditional student. Applicants having 30 or more transferable semester hours must have a grade point average of at least 2.0.

Any student admitted to a certificate program who chooses to pursue an Armstrong Atlantic State University degree must meet all university and program admission requirements.

MILITARY SCIENCE (Army ROTC)

Faculty

Major Patrick S. Jones, Department Head
SFC TerryMichael Smith, Sr. Enlisted Instructor
James Johnson, Personnel Tech

General Information

The Army Department of Military Science is a Senior Division Reserve Officer Training Corps (ROTC) Instructor Group, staffed by Army personnel. The department provides a curriculum available to Armstrong Atlantic State University and Savannah State University students that qualifies the college graduate for a commission as an officer in the U.S. Army, U.S. Army Reserve, or the Army National Guard. Qualifying for a commission adds an extra dimension to the student's employment capability in that, upon graduation from the university, the student has either military or civilian employment options. Enrollment in military science classes is open to all students.

The course of study offered in military science is designed not only to prepare the student for service as a commissioned officer in the U.S. Army but also to provide knowledge and practical experience in leadership and management that will be useful in any facet of society. Male and female students are eligible for enrollment. Each student is provided with a working knowledge of the organization and functioning of the Department of Defense and the role of the U.S. Army in national security and world affairs.

The course of study pursued by students during their freshman and sophomore years is the basic military science course and/or related skill activities. The course of study normally pursued by students during their junior and senior years is the advanced military science course.

For selection and retention in the advanced course, a student must be physically qualified, should have maintained above average military and academic standing, and must demonstrate a potential for further leadership development.

Graduates of the advanced course are commissioned second lieutenants in the branch of service most appropriate to their interests and academic achievements, consistent with the needs of the Army. Regardless of the branch selected, all officers will receive valuable experience in management, logistics, and administration. Graduates may be granted a delay in reporting for duty for graduate study, if requested.

Basic Military Science

Basic military science courses involve four semesters during the freshman and sophomore years. The student learns leadership and management and acquires essential background knowledge of customs and traditions, weapons, map reading, tactics, and survival. Equally important, these

courses have the objective of developing self-discipline, integrity, and sense of responsibility. MILS 1101, MILS 1102, MILS 2201, MILS 2202.

Advanced Military Science

The general objective of this course of instruction is to produce junior officers who by education, training, attitude, and inherent qualities are suitable for continued development as army officers. There are two avenues available for entering the advanced program and obtaining a commission as a second lieutenant:

- satisfactory completion of, or placement credit for, the basic program at Armstrong Atlantic or at any other school, college, or university offering basic ROTC and meeting the entrance and retention requirements established by the Army;
- to be an active duty veteran or junior ROTC cadet graduate eligible for placement credit. MILS 3301, MILS 3302, MILS 4401, MILS 4402.

Placement

Veterans entering the military science programs will receive appropriate placement credit for their active military service. Students who have completed military science courses in military preparatory schools or junior colleges may be given appropriate credit. Students with at least four years of high school ROTC may also be granted placement credit. Placement credit or four semesters of basic military science, or the equivalent thereof, is a prerequisite to admission into the advanced program. Regardless of prior military service, all students must be academically aligned (i.e., freshmen must take freshman level military science courses, etc.).

Alternate Programs for Admittance

Students with two years of coursework remaining, but who have not completed basic military science, are eligible to be considered for selection into the advanced military science program. Those selected under the provisions of the two-year advanced program must satisfactorily complete the Leadership Training Course (LTC) of five weeks duration prior to entering the advanced program. Students attending the LTC at Fort Knox, Kentucky, are paid at active army rates and given a travel allowance from their home to camp and return. Attendance at basic camp is voluntary and incurs no military obligation until the student returns and decides to sign a contract to pursue a commission.

Participating Students and Aliens

Participating students are students who participate in military science courses but are not fully enrolled or are ineligible for enrollment in the ROTC programs. Participating and alien students may enroll in the military science classes provided they meet the requirements outlined in army regulations and are approved by the department head and/or school authorities. Although these students may enroll in military science classes, they may only participate in classroom instructions. They will not participate in any high risk training, drill, marching, leadership laboratories, field training exercises, voluntary programs, or attend basic or advanced camp. These students will also not be issued the uniform, nor receive credit toward commissioning or enlisted grade status through completion of ROTC courses.

Leadership Diagnostic and Assessment Course (LDAC)

Students contracting to pursue the advanced courses are required to attend the national camp, normally between their junior and senior academic years at Fort Lewis, Washington. The duration of the camp is 29 days. MILS 3350.

Financial Assistance

All contracted advanced course cadets are paid a subsistence allowance of \$200 per month while enrolled in the program.

Scholarships

Each year the U.S. Army awards two- and three-year scholarships to outstanding young men and women participating in the Army ROTC program who desire careers as army officers. The army pays tuition, fees, books and laboratory expenses incurred by the scholarship student. In addition, each student receives from \$300 to \$400 per month for the academic year. The Savannah Volunteer Guards have established a full-tuition scholarship for qualified incoming freshmen enrolled in ROTC classes. No military obligation is incurred. The scholarship is for one year, with a possibility of renewal for the next school year. Individuals desiring to compete for these scholarships should apply to the Military Science Department.

Army ROTC Uniforms, Books and Supplies

Students enrolling in the Army ROTC program will be issued U.S. Army uniforms, books, and supplies by the Military Science Department. No fees or deposits of any kind will be required. Uniforms must be returned before commissioning or upon disenrollment from the ROTC program.

MILS Courses

The basic course of four semester duration consists of two hours of instruction work per week. Students acquire knowledge of military leadership, weapons, tactics, basic military skills, and physical fitness. In field training exercises, potential for leadership is progressively developed. Basic course students are invited and encouraged to attend military science leadership laboratories and physical training sessions.

The advanced course consists of three hours of classroom work and one hour of leadership laboratory per week. During the spring quarter prior to advanced camp the student will enroll in MILS 3302 to prepare for attendance at advanced camp. MILS 2001 – The Evolution of Military Warfare is normally taken spring semester of the senior year. The coursework during the advanced course emphasizes techniques, management, leadership, and the fundamentals and dynamics of the military team. Field training exercises provide the student with applied leadership experiences. Participation in leadership laboratories and physical training sessions are mandatory.

Professional Military Education (PME) Requirements

The army's professional military education requirements are established to provide cadets with the training and enrichment necessary to successfully compete in the army. In addition to completing a baccalaureate degree, the cadet must complete one undergraduate course from each of the five designed fields of study (some of these requirements may be waived for nursing majors). The five PME designated fields of study are listed below and the courses that meet the cadet command PME requirement:

- Written Communications Skills: ENGL 1101, ENGL 1102, and ENGL 1102H
- Human Behavior: PSYS 1101, SOCI 1101, HIST 1111, HIST 1112, and ANTH 1101
- Math Reasoning: MATH 1011 and MATH 1113
- Military History: MILS 2001
- Computer Literacy: CSCI 1112, CSCI 1301, and CSCI 2060

Minor

The department offers a minor in military science. The program is designed to prepare the student for a commission in the U.S. Army and is offered to, but not required of, those students participating in the advanced course of Army ROTC instruction. Whatever the major, a military science minor will strengthen a student's management, leadership, and interpersonal communication skills. The minor requires:

Twenty credit hours with grades of C or better in any of the following upper division military science courses: MILS 1101, MILS 1102, MILS 2201, MILS 2202, MILS 2250, MILS 3302, MILS 4401, MILS 4402, MILS 2001.

NAVAL SCIENCE (Naval ROTC)

Faculty

Captain Leonard B. Jones, USN, Department Head
Commander Joel C. Reaves, USN
Maj. Timothy Bradley, USMC
Lt. Christiaan van Westendorp, USN

General Information

Naval Reserve Officer Training Corps (NROTC) prepares students for commissioned service as regular or reserve officers in the Navy and Marine Corps.

Advanced Program - Navy Option:

NSCI 3003, 3004 6 hours

Advanced Program - Marine Corps Option:

NSCI 3101, 4102 10 hours

Additional and Substitute Requirements:

NSCI 4050, Naval Drill (0-2-0), is required each academic term of all midshipmen.
NSCI 1003 and 4050 satisfy the university physical education requirement.

Navy Scholarship Midshipmen (additional requirements):

One year of calculus (completed before the junior year) 6 hours
One year of calculus-based physics (completed before senior year) 6 hours
Computer science 3 hours
Military history and political science 6 hours
(Specific courses that satisfy the above requirement will be promulgated by the professor of naval science.)

Course Index and Descriptions

Numbering System for Courses

In the course listings that follow, there appear three numbers in parentheses after each course title. The first number listed indicates the number of hours of lecture; the second number listed indicates the number of hour of laboratory (including field placements); the third number listed indicates the number of semester hours of credit carried by the course. The letter V represents a variable number of hours.

Courses numbered 0000-0199 carry institutional credit only and may not be applied to a degree program.

Courses numbered 1000-1999 are generally planned for the freshman year; courses numbered 2000-2999 for the sophomore year; courses numbered 3000-3999 for the junior year; and courses numbered 4000-4999 for the senior year.

Courses numbered 5000-5999U are graduate courses with dual enrollment by undergraduate and graduate students. (Permission is not required for undergraduate students.)

Courses numbered 6000-8999 are graduate courses. (Undergraduate students may not enroll.)

Lettering System for Courses

Throughout the catalog, four capital letters followed by four numbers are used to designate individual courses. Following is a list of the prefixes (abbreviations) used, as well as an index for quick page location of courses in specific subject areas.

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**Courses at Savannah State University*

AASU–University Studies**AASU 1100 THE UNIVERSITY EXPERIENCE****1-0-1**

Preparation for first-year students to become active, effective participants in the AASU experience. Topics include an introduction to campus resources and support services, familiarization with the career planning and major choice processes, an overview of campus policies and procedures, and an introduction to campus technologies. Credit granted for either AASU 1101 or 1100.

AASU 1101 STRATEGIES FOR SUCCESS**2-0-2**

Skills, information, and guidance useful for success in college while focusing on the purposes of higher education, the roles of the student, and the resources available within the university for academic success and career choices. Credit granted for either AASU 1100 or 1101.

AFAS–African American Studies**AFAS 2000 INTRODUCTION TO AFRICAN AMERICAN STUDIES****3-0-3**

Prerequisite: ENGL 1101

Interdisciplinary introduction to African American studies from a social science perspective.

AFAS 4000 INDEPENDENT STUDY IN AFRICAN AMERICAN STUDIES**3-0-3**

Prerequisite: AFAS 2000 and the permission of the Coordinator of African American Studies or instructor

An in-depth, closely supervised, instructor-approved study in the interdisciplinary areas associated with the African American Studies minor on a topic with African American emphasis.

AFAS 5000U TOPICS IN AFRICAN AMERICAN STUDIES**3-0-3**

Prerequisite: AFAS 2000 and the permission of the Coordinator of African American Studies.

Special topics in African American Studies. Will be offered in conjunction with selected upper-level courses in the university curriculum when content of those courses addresses issues related to African American Studies.

ANTH–Anthropology**ANTH 1102 INTRODUCTION TO ANTHROPOLOGY****3-0-3**

Introduction to the biocultural nature of humans through a survey of the subdisciplines of anthropology within an ecological and evolutionary framework.

**ANTH 1150 GLOBAL PERSPECTIVES IN ANTHROPOLOGY:
PEOPLES OF THE WORLD****3-0-3**

Peoples of the world from a cultural anthropological perspective with an emphasis on contemporary issues and problems.

ANTH 3020 HUMAN EVOLUTION**3-0-3**

Prerequisite: ANTH 1102

Biological anthropology through the principles of evolution and genetics, evolutionary forces, human variation and adaptation, primate evolution and behavior, the fossil record of human ancestors and early modern humans, and the relationship between human biology and culture.

ANTH 3050 NORTH AMERICAN INDIANS**3-0-3**

Prerequisite: ANTH 1102

Prehistoric, historic, and contemporary Native American populations north of Mexico, with an emphasis on the role of the environment in the diversity and complexity of Native American cultures.

ANTH 3080 PRIMATE SOCIAL BEHAVIOR AND ECOLOGY**3-0-3**

Prerequisite: permission of instructor or ANTH 1102

Social behavior and ecology of prosimians, monkeys, and apes and the implications for the evolution of human social behavior. Topics include primate origins and evolutionary trends, survey of living primates, social organization, ecology and social behavior, and models for the evolution of human behavior.

ANTH 3100 ANTHROPOLOGY OF SEX AND GENDER**3-0-3**

Prerequisite: ANTH 1102

Biological determinants of sex differences and the cultural determinants of gender roles, with an emphasis on the cross-cultural relationship between gender roles and the control of resources.

ANTH 3820 INTRODUCTION TO ARCHAEOLOGY**3-0-3**

Survey of archaeology using cross-cultural examples. Focus on history, basic techniques, concepts, theories, and types of research. Cross listed as HIST 3820.

ANTH 3950 RESEARCH IN THE SOCIAL AND BEHAVIORAL SCIENCES**V-V-(1-3)**

Prerequisite: permission of instructor or department

Open to juniors or above. Uncompensated research assigned and directed by a faculty member using methods appropriate to the discipline. Evaluation by a rotating committee of the faculty before initiation and upon completion. Up to three hours credit in one discipline, for a maximum of six credit hours.

ANTH 4000 SORCERY, DEMONS, AND GODS**3-0-3**

Prerequisite: ANTH 1102

Anthropological analysis of religion and religious beliefs across cultures, including father gods and mother goddesses, sorcery and magic, shamanism, sacrifice, and totemism.

ANTH 4050 SOCIOBIOLOGY OF HUMAN BEHAVIOR**3-0-3**

Prerequisite: ANTH 1102

Examination of human social behavior from a biological anthropological perspective, including topics such as altruism and kinship, human mating strategies, reproduction and parenting, ecology of social systems, and life history strategies.

ANTH 4401, -02, -03 SPECIAL TOPICS IN ANTHROPOLOGY**3-0-3**

Prerequisite: ANTH 1102

Upper-level courses not otherwise offered in the anthropology curriculum. Various substantive topics, theoretical issues and problems. Possibility to repeat with different topics. No more than two such courses counted in the minor.

ARTS—Art**ARTS 1010 DRAWING I****1-4-3**

Introduction to the techniques, materials and principles of drawing.

ARTS 1011 DRAWING II**1-4-3**

Techniques, materials and principles of drawing.

ARTS 1020 TWO-DIMENSIONAL DESIGN**1-4-3**

The fundamentals of two dimensional design introduced through projects in a variety of media.

ARTS 1030 THREE-DIMENSIONAL DESIGN**1-4-3**

An investigation of three-dimensional forms and space using materials and methods.

ARTS 1100 ART APPRECIATION**3-0-3**

Artistic theories, styles, media, and techniques as they relate to the visual arts. Not recommended for art majors.

ARTS 1270 WORLD ART AND MUSIC**3-0-3**

Comparison of traditional art and music from a variety of world cultures. Emphasis on art and music's role, media and techniques, and the inherent personal expression of various artists and composers. Crosslisted as MUSC 1270.

ARTS 2011 PAINTING I**1-4-3**

Prerequisite: ARTS 1010 and ARTS 1020

Acrylic painting from observed and secondary sources.

ARTS 2012 PAINTING II 1-4-3

Prerequisite: ARTS 2011

Continuation of Painting I with increased emphasis on student selected problems.

ARTS 2040 INTRODUCTION TO PHOTOGRAPHY 1-4-3

Black and white photographic aesthetics, processes. Functions of 35mm camera and processing of film and printing.

ARTS 2110 INTRODUCTION TO GRAPHIC DESIGN 1-4-3

Prerequisite: ARTS 1020 or permission of instructor or department

Fundamentals of visual graphic communication as related to modern advertising techniques. Emphasis on design, layout, typography, and reproduction.

ARTS 2150 THE COMPUTER IN ART 1-4-3

Prerequisite: ARTS 1020 or permission of instructor or department

Computer as a tool for making art using its unique output characteristics to produce hardcopy on various printers and for making art using the hardcopy combined with traditional media. Emphasis on image making and image manipulation.

ARTS 2400 INTRODUCTION TO CRAFT 1-4-3

Basic craft processes and techniques with emphasis on fibers and metalwork.

ARTS 2710 ART HISTORY I 3-0-3

Visual arts from prehistory to 1400.

ARTS 2720 ART HISTORY II 3-0-3

Visual arts from 1400 to the present.

ARTS 3030 OIL PAINTING 1-4-3

Prerequisite: ARTS 2011

Special qualities and techniques of oil painting.

ARTS 3040 WATERCOLOR PAINTING 1-4-3

Prerequisite: ARTS 1010

Exploration of traditional and experimental approaches to transparent watercolor.

ARTS 3110 ADVANCED GRAPHIC DESIGN 1-4-3

Prerequisite: ARTS 2110

Advanced techniques in visual idea development as applied to the professional field of graphic design and advertising.

ARTS 3130 DRAWING III 1-4-3

Prerequisite: ARTS 1011

Continuation of Drawing II emphasizing complex problems in concept design and media.

ARTS 3140 INTERMEDIATE PHOTOGRAPHY 1-4-3

Prerequisite: ARTS 2040

Advanced study of the aesthetics and processes in black and white photography.

ARTS 3150 COLOR PHOTOGRAPHY 1-4-3

Prerequisite: ARTS 2040

Aesthetics and print processes of color photography.

ARTS 3160 HAND-COLORED AND MANIPULATED SILVER PRINT 1-4-3

Prerequisite: ARTS 2040

Exploration of media and techniques to enhance and alter a silver print. Emphasis on hand applied color and toning.

ARTS 3170 EXPERIMENTATION IN PHOTOGRAPHY 1-4-3

Prerequisite: ARTS 2040

Exploration of experimental techniques, i.e., solarization, mordancage, negative prints, photograms, double exposures, and others. Non-silver processes, cyanotype, van dyke brown and others.

ARTS 3200 ART FOR THE CHILD 1-4-3

Prerequisite: Candidacy in the Department of Early Childhood Education.

The child and his or her development in relation to qualitative art experiences including studio experiences. Emphasis on materials and methods suitable for teaching art at the elementary school level. (May not be used for credit by art education majors.)

ARTS 3210 TYPOGRAPHY 1-4-3

Prerequisites: ARTS 2110

Introduction to typography as it relates to visual communication, analyzing letterforms from a historical perspective, aesthetic value, purpose, and functionality.

ARTS 3220 CORPORATE LOGO AND IDENTITY DESIGN 1-4-3

Prerequisites: ARTS 2110

Designing symbols and text as a means to create a visual identity for companies as it relates to branding.

ARTS 3230 PACKAGING DESIGN 1-4-3

Prerequisites: ARTS 2110

Designing and creating product containers utilizing three-dimensional forms as they relate to graphic design.

ARTS 3300 CERAMICS I 1-4-3

Fundamentals of wheel thrown pottery, hand building techniques, ceramic sculpture. Emphasis on decoration, form, craftsmanship, creativity. Traditional glazing and firing techniques and exploration into non-traditional methods of coloring and construction.

ARTS 3310 POTTERY TECHNIQUES 1-4-3

Techniques of pottery utilizing the potter's wheel.

ARTS 3330 CERAMIC SCULPTURE 1-4-3

Prerequisite: ARTS 3300

Emphasis on developing ideas into large scale ceramic sculpture. Individual attention and direction facilitated. Projects may include pottery, the figure, abstractions, wall relief, mixed media constructions.

ARTS 3350 GLAZE EXPERIMENTATION 1-4-3

Prerequisite: ARTS 3300

Raw materials and chemicals used in glazes, glaze formulation, and firing glazes in oxidation, reduction, and raku kilns.

ARTS 3400 PRINTMAKING I 1-4-3

Basic printmaking processes. Emphasis on relief, intaglio and non-traditional processes, i.e. collagraph, monoprints.

ARTS 3620 JEWELRY/ENAMELING 1-4-3

Design and production of jewelry and enameled objects.

ARTS 3630 FABRIC DESIGN 1-4-3

Application of original designs to fabric with emphasis on batik, tie-dye, direct application, and combined techniques.

ARTS 3640 WEAVING 1-4-3

Basic weaves, the hand loom, and off the loom weaving techniques.

ARTS 3660 PAPERMAKING 1-4-3

Hand papermaking with emphasis on the production of both two- and three-dimensional pieces.

- ARTS 3700 FIGURE SCULPTURE** 1-4-3
Prerequisite: ARTS 3300
Basic sculpture ideas, terminology, processes. Emphasis on the human figure using clay and other media.
- ARTS 3710 SCULPTURE MATERIALS** 1-4-3
Additive and subtractive sculpture techniques with emphasis on wood construction, carving, and mixed media.
- ARTS 3720 FIBER SCULPTURE** 1-4-3
Prerequisite: ARTS 2400
The application of fiber methods to create three-dimensional pieces, using traditional and non-traditional materials.
- ARTS 3740 ART MANAGEMENT** 3-0-3
Prerequisite: ENGL 1101
Theory and practice in art programming management, including audience analysis and development, publicity, promotions, and marketing tools examined.
- ARTS 3760 INTERNSHIP I - PRE-STUDENT TEACHING** 0-V-1
Prerequisites: admission to Candidacy in the Department of Art, Music and Theatre
Directed practice in the teaching of students in P-12 public school setting.
- ARTS 3810 INTRODUCTION TO DIGITAL PHOTOGRAPHY** 1-4-3
Prerequisite: None
Digital photography techniques, integration of digital software and hardware with the photography process, and digital print production.
- ARTS 4140 FIGURE DRAWING** 1-4-3
Prerequisite: ARTS 1011
The human figure as structure and expressive form in various media.
- ARTS 4720 LEADERSHIP IN THE VISUAL ARTS** 1-4-3
Prerequisite: none
Open only to senior art majors. A course in professional practices and in leadership in the visual arts. Course taken in preparation for the senior portfolio review and exhibition.
- ARTS 4740 SENIOR EXHIBITION** 0-2-0
Prerequisites or Corequisites: ARTS 4720 or ARTS 4750
Open only to art majors. Senior-level exhibition in a gallery setting. Course taken to satisfy graduation requirements.
- ARTS 4750 B.F.A. PROJECT** 0-3-3
Prerequisite: permission of the department
The research and development of a cohesive body of work for the B.F.A. Exhibition.
- ARTS 4760 INTERNSHIP II - STUDENT TEACHING** 0-V-12
Prerequisites: admission to Candidacy in the Department of Art, Music and Theatre; completion of all coursework
Supervised field-based teaching experiences providing the opportunity to use knowledge and skills in a P-12 public school setting. A capstone course.
- ARTS 4890 SELECTED STUDIES IN ART** V-V-(1-4)
Offered on demand to meet special institutional and community needs. May be repeated for credit.
- ARTS 4900 DIRECTED INDIVIDUAL STUDY** V-V-(1-4)
Prerequisite: permission of instructor
Independent course of study for advanced students in a discipline as mutually agreed to by student and instructor.

ARTS 4910 INTERNSHIP**1-4-3**

Prerequisite: permission of instructor or department and 2.5 grade point average
Individually designed off-campus study, work, and/or research project under the joint supervision of an institutional sponsor and a faculty supervisor.

ARTS 4950 SPECIAL PROBLEMS**1-4-3**

Prerequisite: nine hours of coursework in a selected studio area
Special problems in visual arts mutually agreed to by student and instructor.

ARTS 5400U ART IN THE ELEMENTARY GRADES**3-1-3**

Prerequisite: admission to Candidacy in the Department of Art, Music and Theatre or permission of instructor

Planning and implementing art instruction at the elementary level. Overview of materials, methods, classroom management and technology appropriate to children at different developmental levels in the elementary classrooms. Ten hours of practicum work is required.

ARTS 5410U ART IN THE MIDDLE AND SECONDARY GRADES**3-1-3**

Prerequisite: admission to Candidacy in the Department of Art, Music and Theatre or permission of instructor

Planning and implementing art instruction at the middle and secondary level. Overview of materials, methods, classroom management and technology appropriate for the middle and secondary classroom. Ten hours of practicum work is required.

ARTS 5430U TECHNOLOGY IN ART EDUCATION**1-0-1**

Prerequisite: admission to Candidacy in the Department of Art, Music and Theatre and either ARTS 5400U or ARTS 5410U

Examination, development, and use of technological resources for teaching art in pk-12 classrooms.

ARTS 5500U CURRICULUM AND METHODS IN ART EDUCATION**2-0-2**

Prerequisite: admission to Candidacy in the Department of Art, Music and Theatre and either ARTS 5400U or ARTS 5410U

The planning, implementation, and evaluation of a sequential curriculum for the visual arts in the P-12 teaching environment. Areas of analysis include past and present art programs and art education movements as alternative models for curriculum design; evaluation of innovative school, museum, and other institutional art programs; meaning and method of curriculum improvement; guidelines for curriculum; decision making; and evaluation.

ARTS 5560U ISSUES IN AESTHETICS AND ART EDUCATION CRITICISM**3-0-3**

Prerequisite: admission to Candidacy in the Department of Art, Music and Theatre and either ARTS 5400U or ARTS 5410U

An introduction to basic issues related to the teaching aesthetics, art criticism, and art history to P-12 students. Students will design, implement, and evaluate developmentally appropriate instruction for teaching these issues.

ARTS 5750U CONTEMPORARY ART AND CRITICISM**3-0-3**

Prerequisite: ARTS 2720

Exploration of contemporary art historical and critical issues.

ARTS 5760U HISTORY OF PHOTOGRAPHY**3-0-3**

Prerequisite: Limited, Provisional, Regular, or Certification acceptance into the School of Graduate Studies or ARTS 2720 or ENGL 2100

History of images created with light. Special attention paid to contemporary theoretical readings of historic images.

ARTS 5770U ART AND IDENTITY**3-0-3**

Prerequisite: Limited, Provisional, Regular, or Certification acceptance into the School of Graduate Studies or ARTS 2720 or ENGL 2100

An examination of issues of identity (such as race, gender, religion, age and socioeconomic status) and their impact on the production and consumption of images.

ARTS 5780U ART OF AFRICA AND DIASPORA**3-0-3**

Prerequisite: Limited, Provisional, Regular, or Certification acceptance into the School of Graduate Studies or ARTS 2720 or ENGL 2100

Overview of images produced on the African continent and those created by people who were transported to or migrated to the Americas, the Caribbean, and Europe. Emphasis will be placed on the work of twentieth and twenty-first century artists in exploration of their African heritage.

ASTR–Astronomy**ASTR 1010 ASTRONOMY OF THE SOLAR SYSTEM****3-0-3**

Prerequisite: eligibility for MATH 1111

Astronomy from early ideas of the cosmos to modern observational techniques. Solar system planets, satellites, and minor bodies. Origin and evolution of the solar system.

ASTR 1020 STELLAR AND GALACTIC ASTRONOMY**3-0-3**

Prerequisite: eligibility for MATH 1111

The study of the sun and stars, their physical properties and evolution, interstellar matter, star clusters, our galaxy and other galaxies, the origin and evolution of the universe.

ASTR 3000 INTRODUCTION TO THE UNIVERSE**3-0-3**

Prerequisite: eligibility for MATH 1111

A survey of the universe. Examines the historical origins of astronomy; the motions and physical properties of the sun, moon, and planets; the formation, evolution and death of stars; the structure of galaxies; the expansion of the universe. (Students may not receive credit for ASTR 3000 if they receive credit for ASTR 1010 and ASTR 1020.)

BIOL–Biology**BIOL 1107 PRINCIPLES OF BIOLOGY I****3-3-4**

Prerequisite: eligibility for ENGL 1101

Elements of chemistry; cell structure and function; DNA and protein synthesis, biotechnology; bioenergetics; evolution and diversity of life; experimental design and data analysis.

BIOL 1107H HONORS PRINCIPLES OF BIOLOGY I**3-3-4**

Prerequisite: Eligibility for ENGL 1101 and admission to the Honors Program, or permission of instructor

A more in-depth treatment of topics covered in BIOL 1107. In addition to normal lecture format, students will participate in group discussions, book reviews and debates on recent important discoveries and issues in biology. Lab content will be similar to BIOL 1107, but will include more advanced lab techniques, problem-solving activities, and fieldwork.

BIOL 1108 PRINCIPLES OF BIOLOGY II**3-3-4**

Prerequisite: BIOL 1107

Diversity of life; Mendelian and human genetics; evolutionary biology; principles of ecology; experimental design and data analysis.

BIOL 1108H HONORS PRINCIPLES OF BIOLOGY II**3-3-4**

Prerequisite: BIOL 1107 OR 1107H, and admission to the Honors Program, or permission of instructor.

A more in-depth treatment of topics covered in BIOL 1108. In addition to normal lecture format, students will participate in group discussions and debates on recent important discoveries and issues in biology. Lab content will be similar to BIOL 1108, but will also include problem-solving activities and fieldwork.

BIOL 1120 DIVERSITY OF LIFE**3-0-3**

Prerequisite: eligibility for ENGL 1101

Survey of the kingdoms of life, including monera, protista, fungi, plantae, animalia, and sub-life groups such as viruses. (Credit may not be applied toward a major in biology.)

BIOL 1130 HUMAN BIOLOGY**3-0-3**

Prerequisite: eligibility for ENGL 1101

Structure and function of human organ systems, human heredity, evolution, and ecology. (Credit may not be applied toward a major in biology.)

BIOL 1140 ENVIRONMENTAL BIOLOGY**3-0-3**

Prerequisite: eligibility for ENGL 1101

Relationship of humans to their environment with consideration of natural cycles and balances, populations, energy, air and water pollution, solid waste issues and environmental regulation and legislation. (Credit may not be applied toward a major in biology.)

BIOL 2010 MICROBIOLOGY**3-3-4**

Prerequisite: BIOL 1107

Genetics, classifications and methods of control of bacteria, fungi, protozoa and viruses, with introduction to medical, industrial and environmental microbiology.

BIOL 2020 SURVEY OF THE KINGDOMS PLANTAE AND FUNGI**3-3-4**

Prerequisite: BIOL 1107

Phylogeny, morphology and ecology of plants, fungi, and lichens including prokaryotic and eukaryotic algae, bryophytes, extinct early land plants and their extant species and fossil records of ferns, gymnosperms and flowering plants.

BIOL 2081 HUMAN ANATOMY AND PHYSIOLOGY I**3-2-4**

Prerequisite: BIOL 1107 or CHEM 1151 or CHEM 1211 or CHEM 1010

Gross anatomy, histology and physiology of human organ systems. (Non-majors course intended for health professions students.)

BIOL 2082 HUMAN ANATOMY AND PHYSIOLOGY II**3-2-4**

Prerequisite: BIOL 2081

A continuation of BIOL 2081. Anatomy, histology, and physiology of human organ systems. (Non-majors course intended for health professions students.)

BIOL 2275 MICROORGANISMS AND DISEASE**3-3-4**

Prerequisite: BIOL 2081 and BIOL 2082

Morphology, genetics, physiology, and public health importance of microorganisms with emphasis on bacterial pathogens. (Non-majors course intended for health professions students)

BIOL 2500 PRINCIPLES OF MODERN BIOLOGY**2-0-2**

Prerequisite: BIOL 1107

Modern theories of gene structure, regulation and expression and principles of metabolism.

BIOL 3000 CELL BIOLOGY**4-0-4**

Prerequisite: BIOL 2500

Prerequisite or corequisite: CHEM 1211

Evolution of cells from prokaryotic and from unicellular to multicellular. Structure of membranes, organelles, and cytoplasmic background, mitosis, meiosis, and the cell division cycle.

BIOL 3010 MODERN BIOLOGY LABORATORY**0-4-1**

Prerequisite: BIOL 2500 and BIOL 2010

Prerequisite or corequisite: CHEM 1211

Open to juniors and seniors. Methods and techniques used in cell and molecular biology laboratories, with an emphasis on procaryotic systems. Techniques covered include micropipetting, DNA isolation and quantification, DNA restriction and electrophoresis, bacterial transformation, DNA fingerprinting and polymerase chain reaction, protein assays and/or immunological techniques.

BIOL 3020 ZOOLOGY**3-3-4**

Prerequisite: BIOL 1108

A survey of the animal kingdom. Taxonomy, natural history, development, evolution, structure and physiology of animals.

BIOL 3100 MAN AND THE ENVIRONMENT 3-0-3

Prerequisite: BIOL 1107

Interactions between humans and the support systems of the earth which are essential to their existence. Cannot be used as a biology major elective.

BIOL 3150 HORTICULTURE 3-2-4

Prerequisite: BIOL 2020

Basic gardening principles with emphasis on plant growth and development as responses to environmental conditions; plant classification, growth and development, environment, propagation, disease, pest control.

BIOL 3200 TAXONOMY AND IDENTIFICATION OF FLOWERING PLANTS 1-7-4

Prerequisite: BIOL 2020

Taxonomic systems used in plant classification, dichotomous keys, phytophraphy, concepts of taxa, and uses of herbaria. Characteristics of major flowering plant families in the southeastern United States. Museum quality plant collection required. Weekly local field trips and trips to mountain regions and Florida.

BIOL 3230 ANATOMY OF THE SEED PLANTS 3-3-4

Prerequisite: BIOL 2020

The cells, tissues, and internal organ structure of seed plants with emphasis on conifers and flowering plants. Coverage includes a detailed treatment of wood structure and wood identification techniques.

BIOL 3300 ENTOMOLOGY 3-4-4

Prerequisite: BIOL 1108

Insects, their collection, identification, anatomy, physiology, development, specialization, ecology, behavior, and their relationships to plants, humans, and other animals.

BIOL 3310 INVERTEBRATE ZOOLOGY 3-3-4

Prerequisite: BIOL 1108

Structure, body functions, interrelations, and natural history of invertebrate groups.

BIOL 3400 HUMAN PHYSIOLOGY 3-0-3

Prerequisite: BIOL 2082

Human organ systems with special attention to neuromuscular and cardiopulmonary function. Cannot be used as a biology major elective.

BIOL 3410 FUNDAMENTALS OF NUTRITION 3-0-3

Prerequisite: BIOL 1108 and BIOL 2082 and CHEM 1211

Biological bases of animal, including human, nutrition; sources, biological utilization, and functions of nutrients.

BIOL 3470 ENVIRONMENTAL RESTORATION 3-0-3

Prerequisite: BIOL 1108, CHEM 1212, and permission of instructor.

Covers current federal and Georgia environmental laws and regulations, coastal ecological concepts, and techniques used for remediation of environmental degradation.

BIOL 3500 TOPICS IN THE LIFE SCIENCES FOR EDUCATORS 3-0-3

Prerequisite: admission to the College of Education and two courses in science, including one lab course. Open only to students in middle grades science track.

A survey of life sciences including topics such as biochemistry, cellular structure and function, DNA and protein synthesis, genetics and evolution, animal structure and function, the kingdoms of life, and principles of ecology.

BIOL 3520 MEDICAL MICROBIOLOGY 3-0-3

Prerequisite: BIOL 2010 (minimum grade of C) and BIOL 2500 and CHEM 1211

Disease causing microbes, their diagnosis, pathogenesis, and epidemiology.

- BIOL 3530 IMMUNOLOGY** 3-3-4
Prerequisite: BIOL 2010 and CHEM 1211
Prerequisite or corequisite: BIOL 3010
Study of the structure and mechanisms of nonspecific and specific immune responses. Immune diseases including hypersensitivity, transplantation, and autoimmunity will also be addressed.
- BIOL 3580 HISTOLOGICAL TECHNIQUE** 1-8-4
Prerequisite: BIOL 1108
Principles and methods of killing, fixing, embedding, sectioning, staining, and mounting plant and animal materials.
- BIOL 3600 SALT MARSH ECOLOGY** 3-3-4
Prerequisites: BIOL 1108 and BIOL 2020
Covers the abiotic and biotic factors of salt marshes. Topics may cover algal blooms, plant dormancy, marsh die-off, contaminant and pollutant impacts, habitat loss, and marsh conservation.
- BIOL 3700 GENETICS** 3-4-4
Prerequisite: BIOL 2500
Classical, sex-associated, linkage and mapping, chromosomal, cytoplasmic, quantitative, population, and basic genetics of microorganisms and viruses. Lab emphasis on drosophila, plants, and the ascomycetes.
- BIOL 3750 NATURAL HISTORY OF VERTEBRATE ANIMALS** 3-4-4
Prerequisite: BIOL 1108
Life histories, taxonomy, evolution, and adaptations of vertebrate animals with emphasis on identification and examination of local vertebrates through field oriented labs.
- BIOL 3770 DEVELOPMENTAL AND COMPARATIVE ANATOMY OF THE VERTEBRATES** 3-6-4
Prerequisite: BIOL 1108
Development, anatomy, and evolution of vertebrate organ systems.
- BIOL 3920 PARASITOLOGY** 3-4-4
Prerequisite: BIOL 1108
Comparative study of the internal and external parasites of humans and other animals.
- BIOL 4000 ADVANCED CELLULAR PHYSIOLOGY** 3-0-3
Prerequisite: BIOL 2500 and BIOL 3000
Prerequisite or corequisite: CHEM 2101 and CHEM 2101L
Mechanisms, models, and theories explaining cellular phenomena with emphasis on eukaryotic animal cells, to include activities, electrical properties of cells, motility and communication.
- BIOL 4010 EVOLUTION** 3-0-3
Prerequisite: BIOL 1108 and BIOL 2010 and BIOL 2020 and BIOL 2500
Fossil and molecular evidence for the evolution of life on earth, mechanisms for evolution, rates of evolution, extinction, times of appearance, and dominance of the major vertebrate classes and vascular plant groups.
- BIOL 4090 MOLECULAR BIOLOGY** 1-8-4
Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000
Prerequisite or corequisite: CHEM 2101 and CHEM 2101L
Theories and principles in molecular biology including applications and ethical issues associated with new technologies. Laboratory emphasis on recombinant DNA technologies: DNA isolation, purification and quantification, bacterial recombination, construction of genomic libraries, DNA restriction and gel electrophoresis, restriction mapping, southern blotting and polymerase chain reaction. Term paper with oral and written presentations required.
- BIOL 4150 PLANT PHYSIOLOGY** 3-3-4
Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000
Physiologic processes occurring in plants and the conditions which affect these processes.

BIOL 4200 MAMMALIAN PHYSIOLOGY 3-0-3

Prerequisite: BIOL 1108 and BIOL 2500

Prerequisite or corequisite: BIOL 3000

General physiologic processes of mammals.

BIOL 4210 COMPARATIVE PHYSIOLOGY 3-0-3

Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000

Prerequisite or corequisite: CHEM 2101 and CHEM 2101L

Homeostatic mechanisms in animals, with emphasis on differing organs and adaptations which allow organisms to survive and succeed in their normal habitats, and animals' responses to normal environmental conditions and to experimental conditions.

BIOL 4220 ENDOCRINOLOGY 3-0-3

Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000

Prerequisite or corequisite: BIOL 4200 and CHEM 2101 and CHEM 2101L

Vertebrate endocrine systems: glands, targets, mechanisms of action, and control of metabolism.

BIOL 4310 APPLIED MICROBIOLOGY 3-3-4

Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000

Prerequisite or corequisite: CHEM 2101 and CHEM 2101L

Microbiological aspects of food, milk, water, domestic wastes, and industry.

BIOL 4320 ENVIRONMENTAL MICROBIOLOGY 4-0-4

Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000

Prerequisite or corequisite: CHEM 2101 and CHEM 2101L

Principles and applications of environmental microbiology. Topics include habitat and community ecology; biogeochemical cycles; biodegradation; pollution control; resource recovery; soil, water, and waste management. Lab research project with oral and written presentations required.

BIOL 4400 VIROLOGY 3-0-3

Prerequisite: BIOL 2010 and BIOL 2500 and BIOL 3000

Chemical and physical characteristics of viruses including pathogenesis and epidemiology.

BIOL 4450 MORPHOLOGY OF VASCULAR PLANTS 3-3-4

Prerequisite: BIOL 2020

Vascular plants with emphasis on form, anatomy, organography, reproduction, and evolutionary relationships; gametophyte and sporophyte structure, gametangia, sporangia, and embryogeny. Plant divisions from the extinct Rhyniophytes to the Magnoliophyta.

BIOL 4460 PHYTOPLANKTON ECOLOGY 3-4-4

Prerequisite: BIOL 1108 and 2020, or permission of instructor.

History, habitats, and ecology of the plant and protist species found in estuarine environments, with field trips to different coastal habitats.

BIOL 4510 MODERN PRINCIPLES OF DEVELOPMENT 3-0-3

Prerequisite: BIOL 1108 and BIOL 2500 and BIOL 3000

Cellular and molecular level signals which guide differentiation and morphogenesis.

BIOL 4550 BIOLOGY OF MARINE ORGANISMS 3-4-4

Prerequisite: BIOL 1108

Relationship between organisms and abiotic and biotic features of the marine environment, with emphasis on local marine ecosystems. Field labs.

BIOL 4700 GENERAL ECOLOGY 3-4-4

Open to seniors only. Principles of ecology and their application to the welfare of humans; field study of populations and communities, research project with oral and written presentation. Ecology is a discipline which draws on information and methods from other areas of biology and science, and constitutes a capstone experience for biology students. Required for biology major. Must have two biology courses numbered 3000 or above to register.

BIOL 4750 TROPICAL FIELD BIOLOGY**3-4-4**

Prerequisite: BIOL 2010 and BIOL 2020 and BIOL 3020 and permission of instructor.

Classroom lectures will cover the history, habitats, and ecology of the Florida Keys. In the field, students will design and conduct individual research projects that will be evaluated through oral and written presentations. Additional fee required.

BIOL 4800 SENIOR SEMINAR**1-0-1**

Open to seniors only. Library research, oral and written presentations, discussions in related areas of biology. Open to seniors in the last two semesters of their biology major program. Required for biology majors.

BIOL 4910 RESEARCH I**V-V-3**

Prerequisite: permission of instructor or department

Assigned research activity directed by a faculty member in the department: literature search, field and/or laboratory investigation and presentation (oral and written) of results. Project to be approved by the faculty member and department head. Must have three biology major courses at the 3000+ level and a B average in biology courses and overall work.

BIOL 4920 RESEARCH II**V-V-3**

Prerequisite: permission of instructor or department

Assigned research activity directed by a faculty member in the department: literature search, field and/or laboratory investigation and presentation (oral and written) of results. Project to be approved by the faculty member and department head. Must have three biology major courses at the 3000+ level and a B average in biology courses and overall work.

BIOL 4950 INTERNSHIP I**V-V-3**

Prerequisite: permission of instructor or department

Biological project sponsored by an outside agency. Project selected, supervised, evaluated by faculty advisor and department head in consultation with outside agency.

BIOL 4960 INTERNSHIP II**V-V-3**

Prerequisite: permission of instructor or department

Biological project sponsored by an outside agency. Project selected, supervised, evaluated by faculty advisor and department head in consultation with outside agency.

BIOL 4970 SPECIAL TOPICS**V-V-3**

Prerequisite: permission of instructor or department

Topics of special interest.

BIOL 5810U HUMAN PHYSIOLOGY**3-0-3**

Functioning of human organs and systems. Some neuromuscular and cardiopulmonary emphasis.

CEUG—Education Core**CEUG 1010 HUMAN GROWTH AND DEVELOPMENT****3-1-3**

Lifespan development that focuses on physical, emotional, cognitive, and social development. Application to classroom teaching and learning.

CEUG 2100 INTRODUCTION TO STUDENTS WITH DISABILITIES**3-1-3**

Prerequisite: CEUG 1010

Survey of special education policies and identification and education of students who have special education needs. Meets certification requirements for H.B. 671.

CEUG 2222 INTRODUCTION TO RESEARCH DESIGN**3-0-3**

Prerequisite: MATH 1111 and PSYC 1101

Prerequisite or corequisite: MATH 2200

Introduction to quantitative and qualitative research designs and methods. Inferential statistics, data collection, analyses of data and report of research findings, interpreting and translating research into practical applications.

CEUG 3012 LANGUAGE DEVELOPMENT: AGES AND STAGES**3-1-3**

Normal development of language components: semantics, phonology, morphology, syntax, and pragmatics across the life span. Explores typical and atypical language behaviors and describes intervention and simulation strategies. Practicum required.

CEUG 3500 ORAL COMMUNICATION FOR TEACHERS**3-0-3**

Prerequisite: permission of instructor or department

Morphological, phonological, syntactical, grammatical, and semantic structures of student idiolects and strategies for moving to standard American English.

CEUG 4100 INDEPENDENT STUDY**1-8-3**

Prerequisite: Admission to College of Education

An in-depth, closely supervised, instructor-approved study in education. Student must have skills in independent research and study.

CEUG 4200 SPECIAL TOPICS**V-V-(1-4)**

Prerequisite: permission of instructor or department

Study of topics relevant to education.

CEUG 4811, -12 INTERNSHIP P-12**0-V-6**

Prerequisite: permission of the director of professional laboratory experiences.

Students who hold teaching positions in school and/or clinical settings will be supervised by a university faculty member for one academic semester.

CEUG 5010U EDUCATION TESTS AND MEASUREMENTS**3-0-3**

Prerequisite or corequisite: CEUG 3072 or ECUG 3072

Measurements which cover statistical methods, research designs, and research problems; administration and evaluation of psychological tests.

CHEM—Chemistry**CHEM 1010 ESSENTIALS OF CHEMISTRY****3-0-3**

Prerequisite or corequisite: MATH 1101 or MATH 1111

Quantitative survey of chemical sciences emphasizing applications in human physiology, clinical chemistry, inorganic, organic, and biochemistry. Experimental principles illustrated with class-room demonstrations. (Credit in CHEM 1010 may not be applied to the major field requirement in chemistry.)

CHEM 1151 SURVEY OF CHEMISTRY I**3-0-3**

Prerequisite: eligibility for MATH 1111

First course in a two-semester sequence covering elementary principles of general, organic, and biochemistry designed for allied health profession majors.

CHEM 1151L SURVEY OF CHEMISTRY I LABORATORY**0-3-1**

Prerequisite: eligibility for MATH 1111

Prerequisite or corequisite: CHEM 1151

Laboratory exercises supplement the lecture material of CHEM 1151.

CHEM 1152 SURVEY OF CHEMISTRY II**3-0-3**

Prerequisite: CHEM 1151

Second course in a two-semester sequence covering elementary principles of general, organic, and biochemistry designed for allied health profession majors.

CHEM 1152L SURVEY OF CHEMISTRY II LABORATORY**0-3-1**

Prerequisite: CHEM 1151L

Prerequisite or corequisite: CHEM 1152

Laboratory exercises supplement the lecture material of CHEM 1152.

CHEM 1211 PRINCIPLES OF CHEMISTRY I**3-3-4**

Prerequisite or corequisite: MATH 1111

First course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Topics include composition of matter; nomenclature; atomic structure; bonding and molecular geometries; stoichiometry; properties of solids, liquids, gases; acids and bases; thermochemistry; and periodic relations. The lab reinforces these topics.

CHEM 1211R PRINCIPLES OF CHEMISTRY I RECITATION**1-0-1**

Corequisite: CHEM 1211

Recitation to accompany CHEM 1211 for students scoring less than 500 on the mathematics portion of the SAT. Credit in CHEM 1211R may not be applied to the major field requirement in chemistry. Grading is satisfactory/unsatisfactory.

CHEM 1212 PRINCIPLES OF CHEMISTRY II**3-3-4**

Prerequisite: CHEM 1211 and MATH 1111

Second course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Topics include solutions; thermodynamics; equilibria; kinetics; electrochemistry; nuclear chemistry; descriptive inorganic chemistry; and introduction to organic chemistry, and polymers. The lab reinforces these topics.

CHEM 1212H HONORS PRINCIPLES OF CHEMISTRY II**3-0-3**

Prerequisite: CHEM 1211 and approval of department head and a minimum grade of B in CHEM 1211

Prerequisite or corequisite: CHEM 1212A

Second course in a two-semester sequence covering the fundamental and more advanced principles and applications of chemistry designed for science majors. A more in-depth treatment of the topics covered in CHEM 1212.

CHEM 1212A HONORS PRINCIPLES OF CHEMISTRY II LAB**0-4-1**

Prerequisite or corequisite: CHEM 1212H

Analytical applications of chemical laws and principles emphasized through advanced laboratory investigations. A more in-depth treatment of the topics covered in CHEM 1212.

CHEM 2101 ORGANIC CHEMISTRY I**3-0-3**

Prerequisite: CHEM 1212

Prerequisite or corequisite: CHEM 2101L

Fundamental principles and theories of organic chemistry. Topics include bonding, organic functional groups, organic synthesis, and spectroscopic analysis of organic molecules.

CHEM 2101L ORGANIC CHEMISTRY I LAB**0-4-1**

Prerequisite or corequisite: CHEM 2101

Experiments utilize laboratory techniques in organic chemistry; reactions of organic compounds, organic synthesis, and spectroscopic analysis.

CHEM 2102 ORGANIC CHEMISTRY II**3-0-3**

Prerequisite: CHEM 2101 and CHEM 2101L

Prerequisite or corequisite: CHEM 2102L

Continuation of CHEM 2101, Organic Chemistry I.

CHEM 2102L ORGANIC CHEMISTRY II LAB**0-4-1**

Prerequisite or corequisite: CHEM 2102

Experiments utilize laboratory techniques in organic chemistry; reactions of organic compounds, organic synthesis, and spectroscopic analysis.

CHEM 2200 SCIENCE, TECHNOLOGY, AND THE MODERN WORLD**3-0-3**

Prerequisite or corequisite: MATH 1111

Impact of science and technology on everyday life using quantitative case studies.

CHEM 2230 FOOD SCIENCE AND TECHNOLOGY**3-0-3**

Interdisciplinary study of the chemical and biological nature and utilization of foods, including storage and processing technologies affecting health, safety, and consumption.

CHEM 2300 PRINCIPLES OF CHEMICAL ANALYSIS**3-4-4**

Prerequisite: CHEM 1212

Classical methods of analysis including gravimetric and volumetric as well as statistical treatment of data and aqueous equilibria. Practical applications of fundamental principles of chemical analysis emphasized in the lab.

CHEM 2600 ETHICAL THEORIES AND MORAL ISSUES IN THE SCIENCES**2-0-2**

Prerequisite or corequisite: 6 semester hours of science

Examination of the relationship between ethical theory and moral practice in specific areas of our society. This course involves two parts: (1) an explanation and analysis of the principal ethical theories of the Western world and (2) the application of those ethical theories to moral issues and case studies in the physical sciences.

CHEM 2700 DESCRIPTIVE AND MATERIALS CHEMISTRY**2-0-2**

Prerequisite: CHEM 1212

Topics include descriptive chemistry of the main group elements, the transition elements, and industrial chemical processes.

CHEM 2900 INTRODUCTION TO CHEMICAL RESEARCH**0-(3-9)-(1-3)**

Prerequisite: permission of the department head

Prerequisite or co-requisite: CHEM 1212

TFaculty originated chemical lab-based research project. Written report required.

CHEM 3071 PRINCIPLES OF CHEMICAL PROCESSES I**2-0-2**

Prerequisite: CHEM 1212 and MATH 1161

Introduction to methods of material and energy balance in chemical processes. Emphasis on process variables, systems of units, gas behavior, single/multiphase systems, and energy changes in reactive/non-reactive processes. (Credit in CHEM 3071 may not be applied to the major field requirement in chemistry.)

CHEM 3072 PRINCIPLES OF CHEMICAL PROCESSES II**2-0-2**

Prerequisite: CHEM 3071

Continuation of CHEM 3071.

CHEM 3100 FORENSIC CHEMISTRY**3-4-4**

Prerequisite: CHEM 1212

Fundamental principles of chemical forensics. Topics include but are not limited to explosives, soil, paint, blood and body fluid chemistry. Laboratory component reinforces the topics covered with a hands-on approach. (Credit in CHEM 3100 may not be applied to the major field requirement in chemistry.)

CHEM 3200 INORGANIC CHEMISTRY**3-4-4**

Prerequisite: CHEM 2300

Prerequisite or corequisite: CHEM 2102

Fundamental principles in inorganic chemistry. Topics include electronic structure of atoms, inorganic bonding theories, group theory, coordination chemistry, and spectroscopic applications. The lab reinforces theoretical aspects.

CHEM 3300 INSTRUMENTAL ANALYSIS**3-4-4**

Prerequisite: CHEM 2102/2102L and CHEM 2300

Prerequisite or Corequisite: PHYS 1112/1112L or PHYS 2212/2212L

Modern methods of instrumental analysis with emphasis on electroanalytical, spectrophotometric and chromatographic techniques. Practical applications of fundamental principles of instrumental analysis reinforced in the lab.

CHEM 3401 PHYSICAL CHEMISTRY I**3-4-4**

Prerequisite: CHEM 2300 and MATH 1161

Prerequisite or Corequisite: PHYS 1112/1112L or PHYS 2212/2212L

Fundamentals of physical chemistry including gas laws, heat and work, and laws of thermodynamics. Material and reaction equilibrium and standard thermodynamic functions. Single and multi-component phase equilibria, reaction kinetics. Analytical applications of physical chemistry emphasized through lab investigations.

CHEM 3402 PHYSICAL CHEMISTRY II**3-4-4**

Prerequisite: CHEM 3401

Continuation of CHEM 3401. Kinetic-molecular theory, transport processes, quantum mechanics, theories of atomic/molecular structure, spectroscopy, photochemistry. Analytical applications of physical chemistry emphasized through lab investigations.

CHEM 3801 BIOCHEMISTRY I**3-0-3**

Prerequisite: CHEM 2102/2102L

Chemistry of cellular components: introduction to protein structure and function, enzyme kinetics and bioenergetics, mechanisms of catalysis, carbohydrate and lipid metabolism and biosynthesis.

CHEM 3802 BIOCHEMISTRY II**2-4-3**

Prerequisite: CHEM 3801 and CHEM 2300

Chemistry of cellular components: function and analysis of proteins, function, metabolism and biosynthesis of amino acids and nucleic acids, DNA manipulations and recombinant technology, DNA transcription, translation, protein synthesis, and regulation of gene expression. Bioanalytical techniques emphasized in lecture and laboratory.

CHEM 3900 CHEMICAL RESEARCH**0-V-V**

Prerequisite: permission of department head

Prerequisite or corequisite: CHEM 2102

Faculty originated chemical lab-based research project. Scientific paper required.

CHEM 4100 ADVANCED ORGANIC CHEMISTRY**2-4-3**

Prerequisite: CHEM 2102 and CHEM 2102L and CHEM 3401

Topics include synthesis of complex molecules and natural products, asymmetric synthesis and mechanistic organic chemistry. Analytical applications of organic chemistry emphasized through lab investigations.

CHEM 4200 ADVANCED INORGANIC CHEMISTRY**2-4-3**

Prerequisite: CHEM 3200 and CHEM 3401

Advanced applications of inorganic chemistry through lab investigations.

CHEM 4300 ADVANCED ANALYTICAL CHEMISTRY**2-4-3**

Prerequisite: CHEM 3300 and CHEM 3401

Advanced applications of spectrometric and chromatographic analyses.

CHEM 4400 ADVANCED PHYSICAL CHEMISTRY**2-4-3**

Prerequisite: CHEM 3402

Advanced topics and applications of physical chemistry emphasized through lab investigations.

CHEM 4500 CHEMISTRY SEMINAR**2-0-2**

Prerequisite or corequisite: CHEM 3402

Use of chemical journals, references, and electronic information sources. Includes a variety of oral and written assignments. Chemistry faculty involved in assessments.

CHEM 4940 SPECIAL TOPICS IN CHEMISTRY**V-V-(1-3)**

Prerequisite: announced with the topic, permission of department head

Topics chosen from all fields of chemistry dependent on instructor and student interest. Offered by special arrangement.

CHEM 4950 SPECIAL LECTURE TOPICS IN CHEMISTRY**V-0-(1-3)**

Prerequisite: announced with the topic, permission of department head

Topics chosen from all fields of chemistry dependent on instructor and student interest. Offered by special arrangement.

CHEM 4960 INTERNSHIP**V-V-(1-12)**

Prerequisite: CHEM 2102 and CHEM 3300 and CHEM 3402 and permission of department head

Supervised individual research in a non-academic lab setting. Directed by a scientist onsite. Work and credit pre-approved by department head. Paper and oral presentation required.

CHEM 4991, -2, -3, -4 ADVANCED CHEMICAL RESEARCH**0-(3-9)-(1-3)**

Prerequisite: permission of department head and CHEM 2102 and CHEM 3401

Prerequisite or corequisite: CHEM 4500

Faculty-originated chemical lab-based research project. Literature evaluation and lab investigation. Scientific paper and oral presentation to faculty.

CHEM 5600U CHEMICAL SAFETY**2-0-2**

Prerequisite: CHEM 2102

Standard laboratory safety practices emphasizing the hazardous properties of chemicals, safe storage, chemical disposal and government regulations.

CHEM 5700U HISTORY OF CHEMISTRY**3-0-3**

Prerequisite: CHEM 1212 or PHSC 1212

Survey of the development of chemistry and its relationship to the study of science. Prominent chemists, chemical theories, and implications of science covered. Written and oral presentations. (Credit in CHEM 5700U may not be applied to the major field requirement in chemistry.)

CLAS – Classics**CLAS 3351, -2, -3 STUDY ABROAD IN ROME AND ATHENS****9-0-9**

Prerequisite: LATN 1002

An 8-9 week summer semester's residence and study in Rome and Athens in conjunction with the Studies Abroad Program of the University System of Georgia. Through visits to monuments, museums, and classical ruins, and on excursions to Crete, Delphi, Ostia, Tivoli, Tarquinia, and Frascati, the student experiences first hand the reality of life in the ancient world. Crosslisted as LATN 3351, -2, -3.

COMM–Communication**COMM 2280 SPEECH COMMUNICATION****3-0-3**

Prerequisite: ENGL 1101

Practice and theory of communication and public speaking, focusing on developing the skills required to prepare and deliver a public address.

COMM 3050 INTERPERSONAL AND SMALL GROUP COMMUNICATION**3-0-3**

Prerequisite: ENGL 1101

Examination of communication as a tool in creation and implementation of organizational policy.

COMM 3060 PUBLIC RELATIONS**3-0-3**

Prerequisite: ENGL 2100

Introduction to the nature and scope of public relations, the principles and techniques underlying the practice.

COMM 3270 VIDEO LAB**0-1-1**

Prerequisite: ENGL 1102

Practical experience in video production through work on approved projects under supervision of Armstrong Atlantic's video production coordinator. Only one hour of credit may be earned per semester. Repeatable up to three hours. Crosslisted as THEA 3270.

COMM 5050U INTERPERSONAL COMMUNICATION IN THE WORKPLACE 3-0-3

Prerequisites: COMM 2280

Communication theory, research, and applications of various forms of interpersonal communication in the workplace. Topics may include superior-subordinate communication, interviewing, and presentations.

COMM 5100U COMMUNICATION THEORY 3-0-3

Prerequisites: COMM 2280

A broad survey of contemporary theories and processes of interpersonal, public, and mediated human communication.

COMM 5200U NONVERBAL COMMUNICATION 3-0-3

Prerequisites: COMM 2280

An introduction to the theories, processes and effects of communication in nonverbal codes. Topics may include kinesics, proxemics and paralanguage. Critical analysis and contemporary research emphasized.

COMM 5500U COMMUNICATION BETWEEN THE GENDERS 3-0-3

Prerequisites: COMM 2280

An overview of communication research and theory examining differences in verbal and nonverbal communication between men and women and the effects and functions of communication between the genders.

COMM 5600U SPECIAL TOPICS IN COMMUNICATION 3-0-3

Prerequisite: COMM 2280 or permission of instructor

Subject announced when course offered. Topics vary, such as environmental impacts on communication, transactional analysis theory, non-verbal communication.

CRJU—Criminal Justice**CRJU 1100 INTRODUCTION TO CRIMINAL JUSTICE 3-0-3**

Prerequisite: eligibility for ENGL 1101

Emergence and current state of formal institutions established within the American experience to deal with criminal behavior. Philosophical, cultural, social, economic, and political aspects of the justice system and process.

CRJU 1120 MOOT COURT DEBATE 2-0-2

Prerequisite: Eligibility for ENGL 1101 and permission of the instructor.

Legal argumentation and decision making including writing briefs, research, and forensic skills.

CRJU 1130 INTERPERSONAL COMMUNICATION SKILLS 3-0-3

Development of interpersonal communication skills to improve interaction among agency employees and between employees and the public.

CRJU 2010 UNIVERSAL JUSTICE (2-3)-0-(2-3)

Critical juxtaposition of the justice ideal in actual practice in the U.S. and other countries. Development of universal justice construct rooted in the rule of law and applicable to terrorism, piracy, international criminal conspiracy, immigration, sanctuary, asylum, amnesty, and war crimes.

CRJU 2020 ETHICAL THEORIES AND MORAL ISSUES IN CRIMINAL JUSTICE 3-0-3

Relationship between ethical theory and criminal justice policies and practices. Principal ethical theories of the western world and the application of these theories to the administration of justice in the United States. Ethical underpinnings of the crime control and due process models of justice.

CRJU 2200 CRIMINAL INVESTIGATION 3-0-3

Prerequisite: eligibility for ENGL 1101

Investigative methodology focusing on techniques employed in criminal investigation, including crime scene searches, use of informants and surveillance. Presentation of police cases in court.

CRJU 2210 INTRODUCTION TO LAW ENFORCEMENT**3-0-3**

Prerequisite: CRJU 1100

History, philosophy, and basic objectives of the police system in the U.S. and Georgia. Emphasizes applications of the law for law enforcement officers.

CRJU 2410 INTRODUCTION TO CORRECTIONS**3-0-3**

Prerequisite: CRJU 1100

Analysis and evaluation of both historical and contemporary correctional systems. Development, organization operation, and results of the different correctional systems in the U.S.

CRJU 2510 INTRODUCTION TO CRIMINAL LAW**3-0-3**

Prerequisite: CRJU 1100

Origin and evolution of legal norms used by government to control deviant behavior, and their distinct form and overlap with moral and social norms. Emphasis on the role of criminal law in a system of ordered liberty.

CRJU 2700 DIRECTED READINGS IN CRIMINAL JUSTICE**V-V-(1-3)**

Prerequisite: CRJU 1100

Independent study and research on an approved topic, directed by a faculty member.

CRJU 3100 RESEARCH METHODS**3-0-3**

Prerequisite: ENGL 1101 and a grade of C or better in MATH 2200

Open to juniors and seniors only. Methods and techniques of research in the social sciences. Emphasis on evaluating research.

CRJU 3110 CRITICAL THEORY OF CRIMINAL JUSTICE**3-0-3**

Prerequisite: CRJU 3300 or permission of instructor

Critiques of American criminal justice theory and practice from alternative viewpoints.

CRJU 3120 ILLEGAL IMMIGRATION**3-0-3**

Prerequisite: CRJU 1100 and either HIST 1100 or POLS 1100

Political and legal aspects of immigration in a nation of immigrants. Emphasis on operational and bureaucratic impediments of enforcement of immigration laws.

CRJU 3130 HATE CRIMES AND ORDERED LIBERTY**3-0-3**

Prerequisite: HIST 1100 or POLS 1100

Racial, ethnic, cultural, and religious strife and the tension between freedom and equality in democratic societies. Focus on the governmental definition of hate crimes and the historical, economic, and political roots of such crimes. Crosslisted as SOCI 3130.

CRJU 3140 POLITICAL CRIMES**3-0-3**

Prerequisite: CRJU 1100 and either HIST 1100 or POLS 1100

Crimes committed by and against the governments and officers of modern democratic states. Focus on criminal activity by government leaders acting in official capacity and on all illegal activities at all levels of government in the United States.

CRJU 3160 WHITE-COLLAR AND ORGANIZED CRIME**3-0-3**

Prerequisite: CRJU 1100

Nature, scope, and impact of white collar, corporate, and organized crime on the individual and American society.

CRJU 3170 CRIMINAL JUSTICE ADMINISTRATION**3-0-3**

Prerequisite: CRJU 1100 and CRJU 2020

Survey of basic concepts and principles concerned with the administration and management of agencies within the criminal justice system. Emphasis will be placed on organizational structure, functions and behavioral processes.

CRJU 3180 DEVIANCE AND SOCIAL CONTROL**3-0-3**

Prerequisite: CRJU 1100 or SOCI 1101

Nature of deviance, social behavior that departs from that regarded as normal or socially acceptable within a society or the social context, with a focus on sociological theories of deviance. Deviance and social control are revealed as complex social processes, cultural arrangements, and cultural adaptations. Cross-listed as SOCI 3180.

CRJU 3200 CRIMINALISTICS**3-0-3**

Prerequisite: 6 semester hours of science

Problems and techniques of scientific criminal investigation. The role of science and technology in modern law enforcement.

CRJU 3210 LAW ENFORCEMENT: STRUCTURE AND PROCESS**3-0-3**

Prerequisite: CRJU 1100

Philosophical, cultural, and historical background of policing, focusing on the role of police in contemporary society, quasi-military organization, and community relations.

CRJU 3220 INDUSTRIAL, COMMERCIAL, AND PRIVATE SECURITY**3-0-3**

Prerequisite: CRJU 1100

History, development, and analysis of privately employed police and security in the U.S. Topics include an analysis of public vs. private agencies, types (contract and proprietary), and components (physical, information and personnel) of private security. Special emphasis on the functions, strengths, and problems encountered by privatized agencies.

CRJU 3300 CRIMINOLOGY**3-0-3**

Prerequisite: CRJU 1010 and ENGL 1101

Nature and extent of crime in the U.S. Evaluation of factors leading to criminal behavior and measures proposed to control it.

CRJU 3410 COMMUNITY-BASED TREATMENT**3-0-3**

Prerequisite: CRJU 2410 or permission of the instructor

Review of community-based treatment programs, emphasizing functions of halfway houses and use of volunteers in corrections.

CRJU 3500 CRIMINAL EVIDENCE AND PROCEDURE**3-0-3**

Prerequisite: CRJU 1100 and POLS 2100

Historical and contemporary overview of rules governing criminal procedure and rules of evidence as they affect the accused, the convicted, the functions of law enforcement, and the conduct of criminal prosecutions. Constitutional rights of the accused and the conflict of those rights with maintenance of public order and enforcement of criminal law.

CRJU 3510 FAMILY VIOLENCE**3-0-3**

Prerequisite: CRJU 1100 or SOCI 1101 or permission of instructor

Study of the family as an institution that may produce violent individuals. Correlates of family violence, theoretical explanations, impact on public policy, effects on victims and society. Crosslisted as SOCI 3510.

CRJU 3600 TOPICS IN CRIMINAL JUSTICE**V-V-(1-3)**

Prerequisite: permission of instructor or department

Substantive topics, problems, and issues not covered in other courses but of importance to contemporary study of criminal justice. Topics to be announced before each offering; course may be repeated if topic is substantially different.

CRJU 4100 CRIMINALITY AND ABNORMAL BEHAVIOR**3-0-3**

Prerequisite: CRJU 1100

Interface between abnormal behavior and criminality regarding identification, classification, and treatment of criminals. Emphasis on behavioral patterns and motivations of repeat offenders such as child molesters and serial killers.

CRJU 4400 SEMINAR IN CORRECTIONS MANAGEMENT 3-0-3

Prerequisite: CRJU 2410 or permission of instructor

Basic principles and practices of administration and their application to adult and juvenile corrections. Special emphasis upon organizational structure, planning, decision making, management strategies, and personnel management.

CRJU 4500 ADVANCED LAW OF EVIDENCE 3-0-3

Prerequisite: CRJU 3500

Epistemological assumptions and policy purposes of evidentiary rules, doctrines and concepts.

CRJU 4510 ADVANCED CRIMINAL LAW 3-0-3

Prerequisite: CRJU 2510

Criminal law as social control within ordered liberty. Emphasizes economic and moral components of undergirding public policy.

CRJU 4800 INTERNSHIP 0-40-12

Prerequisite: permission of instructor or department

Application of academic knowledge in criminal justice setting. Joint supervision by faculty internship coordinator and agency officials. Requires a substantial research paper.

CRJU 4900 DIRECTED RESEARCH IN CRIMINAL JUSTICE 3-0-3

Prerequisite: CRJU 3100

Open to seniors. Conduct of a major research project with presentation of the results orally and in a paper conforming to departmental guidelines.

CRJU 4910 SEMINAR IN CRIMINAL JUSTICE 3-0-3

Prerequisite: CRJU 3100

Open to seniors. This course is an intensive study/seminar of selected criminal justice topics. Requirements include a comprehensive research paper with an oral presentation.

CRJU 5001U - CYBER SECURITY I 3-0-3

Prerequisite: CSCI 2070

Current standards and best practice in information assurance and security. Topics include evaluation of security models, risk assessment, threat analysis, security implementation, disaster recovery planning, and security policy formulation and implementation.

CRJU 5002U - CYBER SECURITY II 3-0-3

Prerequisite: CRJU 5001U

Concepts of countermeasures and safeguards such as remote access controls, firewalls, intrusion detection systems, virtual private networks, data encryption.

CRJU 5130U POLITICAL TERRORISM 3-0-3

Prerequisite: CRJU 1100 or HIST 1100 or POLS 1100

International and domestic terrorism undertaken for political purposes in liberal states. Primary focus on state-sponsored international terrorism, American domestic revolutionary terrorism, and the dilemmas of counterterrorism in a democracy. Crosslisted as POLS 5130U.

CRJU 5200U ALCOHOL, DRUGS, AND CRIMINAL JUSTICE 3-0-3

Prerequisite: CRJU 1100

Exploration of the pharmacological effects and medical uses of drugs and alcohol; the relationships between drugs and crime, the criminal justice system, and government's crime control policy.

CRJU 5300U JUVENILE DELINQUENCY 3-0-3

Prerequisite: CRJU 1100

Theories of juvenile delinquency, emphasizing sociological, biological, and psychological factors. Modern trends in prevention and treatment.

CRJU 5500U LAW AND LEGAL PROCESS**3-0-3**

Prerequisite: CRJU 1100 or HIST 1100 or POLS 1100

Law as a dynamic societal institution. Sources and functions of both civil and criminal law and operation of the legal process viewed from the perspectives of jurisprudence, political science, and sociology. Crosslisted as POLS 5500U.

CRJU 5520U COMPARATIVE JUDICIAL SYSTEMS**3-0-3**

Prerequisite: CRJU 1100 or HIST 1100 or POLS 1100

Law enforcement and judicial procedure in political systems of Great Britain, France, Russia, and Japan. Crosslisted as POLS 5520U.

CSCI-Computer Science**CSCI 1060 COMPUTER PROGRAMMING CONCEPTS****2-3-3**

Prerequisite: MATH 1111 or a grade of at least 550 on the mathematics portion of the SAT

Introduction to concepts and techniques used in computer programming and algorithm development. Students will apply and develop these concepts through programming assignments and projects. Concepts are developed using traditional computer languages as well as those that allow programming of animations.

CSCI 1150 FUNDAMENTALS OF THE INTERNET AND WORLD WIDE WEB**3-0-3**

Prerequisite: MATH 1001 or MATH 1111

Topics covered include electronic mail, Internet service providers, text editing, basic UNIX programming, researching and publishing online, the Internet, the World Wide Web, searching the World Wide Web, telnet and FTP, HTML programming, web graphics, newsgroups, mailing lists, chat rooms, programming CGI scripts, multimedia, and privacy and security issues.

CSCI 1301 INTRODUCTION TO PROGRAMMING PRINCIPLES**3-0-3**

Prerequisite: MATH 1113

Overview of computers and programming. Fundamentals of structured computer programming; primitive data types, expressions, control statements, methods, arrays, searching, sorting; debugging techniques; introduction to algorithm analysis.

CSCI 1301H HONORS INTRODUCTION TO PROGRAMMING PRINCIPLES**3-0-3**

Prerequisite: MATH 1113 and either acceptance to honors program or permission of the instructor
A more in-depth treatment of the topics covered in CSCI 1301, with extended examples from the natural sciences, mathematics, humanities and the research programs of the faculty of the School of Computing.

CSCI 1302 ADVANCED PROGRAMMING PRINCIPLES**3-0-3**

Prerequisite: CSCI 1301

Object-oriented design and implementation. Topics include: object and class design, inheritance, polymorphism, interfaces, graphical user interfaces and event-driven programming, exception handling, file input and output.

CSCI 2060 COMPUTER LITERACY FOR EDUCATORS**2-0-2**

Prerequisite: MATH 1111

Hardware and software components of computers, elementary programming and the impact of computers on curriculum. Discussion of the capabilities and limitations of computers, and the kinds of problems that are best solved by computers. Experience with developing and modifying algorithms to solve such problems. Emphasis on instructional uses of microcomputers. Not designed for the computer science major. May not be applied as part of a language sequence. Credit granted for only one of ITEC 1050, CSCI 1060, or CSCI 2060.

CSCI 2070 INTRODUCTION TO COMPUTER ETHICS AND CYBER SECURITY**3-0-3**

Prerequisite: ENG1102 and either CSCI 1302 or ITEC 1310

Study of ethical and security considerations for computer professionals and users. Topics include issues of privacy, intellectual property rights, and cybercrime.

CSCI 2201 UNIX AND SECURE WEB DEVELOPMENT**3-0-3**

Prerequisite: CSCI 1301

Thorough introduction to the UNIX operating system. UNIX commands, editors, documentation, and file system. Shells, redirection, filters, pipes, and job control. Compile/edit/debug cycle under UNIX. Install and administer a UNIX system and deploy a secure Web server. Program dynamic Web applications using technologies such as PHP and SQL databases. Performance tuning and hands-on study of UNIX and Web application security vulnerabilities.

CSCI 2410 DATA STRUCTURES AND ALGORITHMS**3-0-3**

Prerequisite: CSCI 1302 and MATH 1161

Topics include: recursion, generics, linked lists, stacks, queues, hash tables, trees, graphs, heaps,) sorting algorithms, and time and space complexity analysis. Use of application program interfaces (API's).

CSCI 2490 C++ PROGRAMMING**3-0-3**

Prerequisite: CSCI 1302

Coverage of C++ programming techniques: primitive data types, control structures, functions, pass-by-value, pass-by-reference, arrays, pointers, C-strings, recursion, classes and objects, file input and output, operator overloading, inheritance, exception handling, templates, and STL.

CSCI 2620 DISCRETE STRUCTURES FOR COMPUTER SCIENCE**3-0-3**

Prerequisite: CSCI 1302 and MATH 2072

Introduction to propositional and predicate logic; naive set theory; relations and functions; graphs; induction and recursion; counting techniques.

CSCI 2990 TOPICS IN COMPUTER SCIENCE**V-V-(1-4)**

Prerequisite: announced with the topic

Special topics at freshman and sophomore level of current interest in computer science.

CSCI 3201 FOUNDATIONS OF DIGITAL SYSTEMS**3-0-3**

Prerequisite: CSCI 1302 and CSCI 2201

Hardware and software concepts of digital computing systems, with emphasis on fundamental system software and details of hardware operation. Virtual machines, systems organization, digital logic, instruction and data formats, addressing modes, error detecting and correcting codes, and register transfer notation.

CSCI 3202 COMPUTER ORGANIZATION AND ARCHITECTURE**3-0-3**

Prerequisite: CSCI 2410

Instruction types, assembly language programming, flow of control, microprogramming, the memory hierarchy, virtual memory, cache organization, and advanced computer architectures (including RISC machines and parallel architectures).

CSCI 3321 INTRODUCTION TO SOFTWARE ENGINEERING CONCEPTS**3-0-3**

Prerequisite: CSCI 2410 and ENGL 3720

Principles and techniques of designing and implementing software systems, including system life-cycle models, planning techniques, requirements analysis and systems specifications, human interfaces, design, implementation, testing, maintenance, team structure, project management. A student project encompassing some or all of these techniques with oral and written presentation.

CSCI 3330 COMPARATIVE LANGUAGES**3-0-3**

Prerequisite: CSCI 2490

Comparative study of programming languages including facilities for procedures, parameter passing and recursion, control structures, and storage allocation techniques. Methods of specifying syntax and semantics. Introduction to program translation.

CSCI 3341 INTRODUCTION TO OPERATING SYSTEMS**3-0-3**

Prerequisites: CSCI 2490 and CSCI 3202

Concepts, structure, and mechanisms of operating systems. Topics include processes, concurrency, memory management, scheduling, I/O management, disk scheduling, file management, basic aspects of protection and security, distributed systems.

CSCI 3510 THEORY OF COMPUTATION**3-0-3**

Prerequisite: CSCI 2620

Computational machine models, including finite automata, pushdown automata, and Turing machines, and their associated language classes.

CSCI 3720 DATABASE SYSTEMS**3-0-3**

Prerequisite: CSCI 2410

Database management system concepts and architecture; the relational, hierarchical, network, entity-relationship, and other models; design concepts; and internal implementation techniques.

CSCI 3961, -72, -83 INTERNSHIP IN COMPUTER SCIENCE**V-V-(1-4)**

Prerequisite: permission of instructor or program coordinator

Practical study experiences in a variety of computing environments under the direction of faculty and appropriate off-campus supervisors.

CSCI 3990 PROGRAMMING SEMINAR**V-V-(1-3)**

Prerequisite: CSCI 1302

Development of problem solving techniques in a team environment. (Designed for but not restricted to, programming contests.)

CSCI 4390 SENIOR PROJECT**0-3-3**

Prerequisite: permission of instructor or department and CSCI 3321

Development of requirement definitions, architectural design specification, detailed design specification, testing plan, documentation, and implementation for the software and/or hardware components of a comprehensive project. Oral and written presentation of project required.

CSCI 4990 SPECIAL TOPICS IN COMPUTER SCIENCE**V-V-(1-4)**

Prerequisite: announced with the topic

Selected topics in some area of current interest in computer science. Possible areas include system simulation, graphics microcomputers, and theoretical computer science.

CSCI 4999 INDEPENDENT STUDY**V-V-(1-3)**

Prerequisite: permission of the instructor

CSCI 5100U OBJECT-ORIENTED PROGRAMMING**3-0-3**

Prerequisite: CSCI 3321

An advanced study of the object-oriented paradigm for software development. Topics include abstract data types, classes, contracts, design patterns, inheritance, polymorphism, O-O languages, and design methods.

CSCI 5210U HIGH PERFORMANCE COMPUTING**3-0-3**

Prerequisite: CSCI 3341

High performance software development for modern hardware. Optimization techniques at the algorithm, architecture, and processor levels. Introduction to practical vector, multi-threaded, and parallel computing concepts. Programming required.

CSCI 5220U NETWORKS**3-0-3**

Prerequisite: CSCI 3202

Introduction to data communications and networking. Topics include communications media, codes, data transmission, multiplexing, protocols, layered networks.

CSCI 5322U ADVANCED SOFTWARE ENGINEERING**3-0-3**

Prerequisite: CSCI 3321 and CSCI 3720

Advanced software engineering principles, including software processes and methodologies, CASE tools, software metrics, software quality assurance, reusability and reengineering, and future trends. Major project encompassing some or all of these concepts.

CSCI 5342U ADVANCED OPERATING SYSTEMS**3-0-3**

Prerequisite: CSCI 3341

Case studies of UNIX (tm) and/or similar operating systems. Elementary knowledge of C/C++ required.

CSCI 5343U SYSTEMS PROGRAMMING UNDER UNIX (TM)**3-0-3**

Prerequisite: CSCI 3341

UNIX (tm) system programming techniques in C. Topics include I/O forking, pipes, signals, interrupts software tools, macros, conditional compilation, passing values to the compiler, lint, symbolic debugging, source code control, libraries.

CSCI 5350U COMPILER THEORY**3-0-3**

Prerequisite: CSCI 3330 and CSCI 3510

Programming language translation and basic compiler implementation techniques, formal grammars and languages, specification of syntax and semantics, lexical analysis; parsing, semantic processing. A major project encompassing some or all of these concepts.

CSCI 5360U EMBEDDED SYSTEMS PROGRAMMING**3-0-3**

Prerequisite: CSCI 3202 and CSCI 2490

Developing applications for embedded microprocessors including virtual machine architectures, data communications, time critical I/O, cross compiling, and debugging techniques.

CSCI 5370U HANDHELD AND UBIQUITOUS COMPUTING**3-0-3**

Prerequisite: CSCI 3202

Survey of personal digital assistants (PDA's) and ubiquitous computing hardware, operating systems, virtual machines, and API's. Development of PDA applications, cross compiling and hardware emulation, PDA GUI design, infra-red and wireless data communications, and desktop conduit developments.

CSCI 5410U ANALYSIS OF ALGORITHMS**3-0-3**

Prerequisite: CSCI 2410 and CSCI 2620

Advanced techniques for designing and analyzing efficient algorithms for combinatorial, algebraic, and number-theoretic problems.

CSCI 5520U RAPID JAVA APPLICATION DEVELOPMENT**3-0-3**

Prerequisite: CSCI 2410 and CSCI 2620

Study of rapid application development techniques for producing software with minimum coding. Includes component-based software development, JavaBeans, event delegation model, model-view approach, and Swing components.

CSCI 5610U NUMERICAL ANALYSIS**3-0-3**

Prerequisite: MATH 2072 and CSCI 1301

Introductory numerical analysis and scientific computation. Topics include computer arithmetic, numerical error, polynomial interpolation, systems of linear equations, iterative methods for nonlinear equations, least squares approximation, numerical and integration. Crosslisted as MATH 4610.

CSCI 5700U COMPUTER SECURITY**3-0-3**

Prerequisite: CSCI 5220U or CSCI5410U

Key concepts and algorithms involved in cryptography and computer security. Includes intrusion detection, firewalls, and digital signatures.

CSCI 5720U ADVANCED DATABASE SYSTEMS**3-0-3**

Prerequisite: CSCI 3720

Survey of database systems, query processing and optimization, transactions, currency control, security, data mining, XML, web data, and Internet commerce.

CSCI 5735U DATA MINING**3-0-3**

Prerequisite: CSCI 3720

Study of data mining functionalities including characterization and discrimination, classification and prediction, cluster analysis, association analysis, outlier analysis, evolution analysis; data mining system architectures; data mining query languages; and OLAP technology for data mining. Multiple projects encompassing a number of the discussed concepts.

CSCI 5820U MACHINE LEARNING**3-0-3**

Prerequisite: CSCI 2490 and CSCI 2620

Pattern matching and classification with an emphasis on developing applications using diverse machine learning methods, including decision trees, neural networks, clustering, and hidden Markov models. Includes a major project encompassing some or all of these concepts.

CSCI 5825U ARTIFICIAL INTELLIGENCE**3-0-3**

Prerequisite: CS 3330

An introduction to machine intelligence, problem solving paradigms, search in state spaces, inference methods, expert systems, game trees, natural language understanding, intelligent agents, multi-agent systems, robotics, and logic and theorem proving.

CSCI 5830U COMPUTER GRAPHICS**3-0-3**

Prerequisite: CSCI 2490 and MATH 2160

Introduction to computer graphics programming. Topics include graphics programming standards, two- and three-dimensional rendering pipelines, geometric models (including primitives, fonts, curves, and surfaces), affine transformations, orthogonal and perspective views, shading and lighting models, images and texture mapping, interactions and animations. Major project encompassing some or all of these concepts.

CSCI 5835U GRAPHICS RENDERING PRINCIPLES**3-0-3**

Prerequisite: CSCI 2490

Prerequisite/co-requisite: MATH 2160

Fundamentals of rendering algorithms, modern graphics architectures, and the mapping between the two. Detailed discussion of color, transformation, rasterization, lighting, texture mapping, shading, shadowing, and blending algorithms. Review of non real-time as well as non photo-realistic methods. Multiple projects encompassing a number of the discussed approaches.

CSDS—Communication Sciences and Disorders**CSDS 1220 INTRODUCTION TO COMMUNICATION DISORDERS****3-0-3**

Types, characteristics, etiologies, and treatment methodologies of various communication disorders in children and adults.

CSDS 2230 ANATOMY AND PHYSIOLOGY OF SPEECH AND HEARING MECHANISMS**3-0-3**

Anatomy and physiology of areas of respiration, phonation, articulation, cerebration/nervous system and audition; functional correlates to the communication process. Supplemental lab experience required. Field experiences required.

CSDS 2250 PHONETICS**3-0-3**

International phonetic alphabet(IPA) in speech-language pathology. IPA transcription of connected speech (normal and disordered), important characteristics of regional/cultural dialects.

CSDS 3150 NORMAL SPEECH AND LANGUAGE DEVELOPMENT**3-1-3**

Prerequisite: Admission to the Communication Sciences and Disorders program.

Phonological, morphological, semantic, syntactic, and pragmatic growth. Observation practicum required.

CSDS 3400 SPEECH SCIENCE**3-0-3**

Prerequisite: Admission to the Communication Sciences and Disorders program.

Physiological production, acoustics, physics of speech, analysis of speech, and technology-related instrumentation available to assess the parameters of speech production.

CSDS 3410 INTRODUCTION TO AUDIOLOGY**3-1-3**

Prerequisite: Admission to the Communication Sciences and Disorders program.

Introduction to etiology, characteristics, assessment, and rehabilitation of individuals with hearing impairments. Directed observation.

CSDS 3420 LANGUAGE DISORDERS 3-0-3

Prerequisite: CSDS 3150

Etiology, characteristics, classification, assessment, and treatment of language disorders. Field experiences required.

CSDS 3430 ORGANICALLY-BASED COMMUNICATION DISORDERS 3-0-3

Prerequisite: CSDS 3150

Etiology, characteristics, assessment, and treatment of the disorders of voice, cleft palate, and cerebral palsy. Field experiences required.

CSDS 3450 ARTICULATION DISORDERS 3-0-3

Prerequisite: CSDS 3150

Etiology, characteristics, classification, assessment, and treatment of articulation and phonological disorders. Field experiences required.

CSDS 4140 AUGMENTATIVE AND ALTERNATIVE COMMUNICATION 3-0-3

Prerequisite: CSDS 3150

Basic knowledge and usage of various non-verbal communication systems.

CSDS 4170 INTRODUCTION TO DIAGNOSTIC PROCEDURES IN SPEECH-LANGUAGE PATHOLOGY 3-0-3

Prerequisite: CSDS 3450 and CSDS 3420 and CSDS 3430

Corequisite: CSDS 4180 and CSDS 4190

Assessment principles and practices in speech-language pathology.

CSDS 4180 DIRECTED OBSERVATIONS IN SPEECH-LANGUAGE PATHOLOGY 1-3-3

Prerequisite: CSDS 3420 and CSDS 3430 and CSDS 3450

Corequisite: CSDS 4170 and CSDS 4190

Focused observations of current practices in speech-language pathology.

CSDS 4190 CLINICAL METHODS IN SPEECH-LANGUAGE PATHOLOGY 3-0-3

Prerequisite: CSDS 3420 and CSDS 3430 and CSDS 3450

Corequisite: CSDS 4170 and CSDS 4180

Introduction to organization, scope, and requirements of clinical practicum.

CSDS 4210 SENIOR SEMINAR 3-0-3

Prerequisite: permission of instructor

Corequisite: CSDS 4450

Contemporary issues, principles, and practices specific to speech-language pathology.

CSDS 4450 PRACTICUM IN SPEECH-LANGUAGE PATHOLOGY 0-3-3

Prerequisite: CSDS 4170 and CSDS 4180 and CSDS 4190

Supervised clinical experience in speech-language pathology.

CSDS 4500 INTRODUCTION TO RESEARCH IN SPEECH-LANGUAGE PATHOLOGY 3-0-3

Prerequisite: permission of instructor

Introduction to scientific methodology and its application to the field of communication disorders.

DHED—Dental Hygiene Education**DHED 3300 DENTAL HYGIENE RESEARCH 3-0-3**

Open to majors in dental hygiene education. Research and the scientific method with application to the field of dental hygiene.

DHED 3310 DENTAL MANAGEMENT OF MEDICALLY COMPROMISED PATIENTS 3-0-3

Open to majors in dental hygiene education. Important factors in the dental management of medically compromised patients.

DHED 4400 FOUNDATIONS OF DENTAL HYGIENE EDUCATION 3-0-3

Open to majors in dental hygiene education. An introduction to the foundations of dental hygiene education including educational process, licensure, and application of information systems. All 2000 level dental hygiene courses must have been completed.

DHED 4401 EDUCATIONAL METHODS IN DENTAL HYGIENE EDUCATION I 2-3-3

Prerequisite or corequisite: DHED 4400

Teaching methods, program objectives, and establishment and organization of content including methods of evaluation, various testing strategies, and supervision in the dental hygiene clinic.

DHED 4402 EDUCATIONAL METHODS IN DENTAL HYGIENE EDUCATION II 2-3-3

Prerequisite: DHED 3300 and DHED 4400 and DHED 4401

Learning styles and activities, teaching procedures, and the presentation of dental hygiene education materials.

DHED 4403 DIRECTED AND INDIVIDUAL STUDY V-V-3

Prerequisite: DHED 3300 and DHED 4400 and DHED 4401

Directed individual study in an area of major interest of research with emphasis relevant to dental hygiene research and future career objectives.

DHED 4410 ADVANCED PERIODONTICS 2-3-3

Open to majors in dental hygiene education. Advanced knowledge of and current trends in periodontics including a clinical component.

DHED 4420 INTERNATIONAL DENTAL HYGIENE PERSPECTIVES 1-6-3

Prerequisite: Permission of instructor or department

International perspectives relating to dental hygiene including the application of oral hygiene educational concepts and methods.

DHED 4490H HONORS ADVANCED PERIODONTICS 2-3-3

Open to majors in dental hygiene education. Advanced knowledge of complex clinical skills and responsibilities and current trends in periodontics. Must have minimum 3.2 GPA in major field of study, selection by program and approval by the affiliate.

DHYG–Dental Hygiene**DHYG 1100 HEAD AND NECK ANATOMY 2-0-2**

Open to majors in dental hygiene. Gross anatomical relationships in the head and neck with emphasis on anatomy of the oral cavity and its clinical application.

DHYG 1101 CLINICAL DENTAL HYGIENE I 2-6-4

Open to majors in dental hygiene. Introduction to the dental hygiene profession including clinical procedures on mannequins and student partners.

DHYG 1102 CLINICAL DENTAL HYGIENE II 2-9-5

Prerequisite: DHYG 1100 and DHYG 1101 and DHYG 1110

Application and integration of oral prophylactic techniques.

DHYG 1110 DENTAL ANATOMY 2-0-2

Open to majors in dental hygiene. Nomenclature, morphology, and eruption sequence of the primary and secondary dentitions.

DHYG 1120 DENTAL ROENTGENOLOGY 2-3-3

Prerequisite: DHYG 1100 and DHYG 1101 and DHYG 1110

Fundamentals of dental radiology using intra-oral and extra-oral techniques for the taking and processing of radiographs.

DHYG 1130 GENERAL AND ORAL PATHOLOGY AND ORAL HISTOLOGY 2-0-2

Open to majors in dental hygiene. Principles of general and oral pathology in relation to common oral diseases. Histology and embryology of the oral cavity.

DHYG 1140 PERIODONTICS 2-0-2

Open to majors in dental hygiene. Basic principles of periodontal health and disease in relation to the total health of the patient including concepts of etiology and periodontal pathology.

DHYG 1150 TRANSITIONAL DENTAL HYGIENE 0-12-4

Prerequisite: DHYG 1102, or permission of instructor or department

Clinical practice is utilized to emphasize refinement of dental hygiene skills.

DHYG 2201 CLINICAL DENTAL HYGIENE III 2-0-2

Prerequisite: all 1000 level DHYG courses and CHEM 1010 and BIOL 2081 and BIOL 2082 and BIOL 2275

Corequisite: DHYG 2201L

Continuation of preceding clinical courses with emphasis on didactic knowledge designed to enhance clinical and professional skills.

DHYG 2201L CLINICAL DENTAL HYGIENE III LABORATORY 0-12-4

Prerequisite: All 1000 level DHYG courses and CHEM 1010 and BIOL 2081 and BIOL 2082 and BIOL 2275

Corequisite: DHYG 2201

Clinical exercises supplement the didactic course material of DHYG 2201.

DHYG 2202 CLINICAL DENTAL HYGIENE IV AND ETHICAL DECISIONS 2-0-2

Prerequisite: DHYG 2201 and DHYG 2201L

Corequisite: DHYG 2202L

Continuation of preceding clinical courses with emphasis on didactic knowledge designed to enhance clinical and professional skills. Jurisprudence and ethical decisions.

DHYG 2202L CLINICAL DENTAL HYGIENE IV LABORATORY 0-15-5

Prerequisite: DHYG 2201 and DHYG 2201L

Corequisite: DHYG 2202

Clinical exercises supplement the didactic course material of DHYG 2202.

DHYG 2210 PHARMACOLOGY AND EMERGENCY MANAGEMENT 2-0-2

Open to majors in dental hygiene. Drugs, with emphasis on those used in dentistry. Emergency management of clinical situations.

DHYG 2220 DENTAL MATERIALS 1-3-2

Prerequisite: DHYG 1101 and DHYG 1102

Chemical, physical, and mechanical properties of dental materials and application during the clinical experience.

DHYG 2230 APPLIED NUTRITION 2-0-2

Open to majors in dental hygiene. Nutrition and nutrition education as applied to the practice of dental hygiene.

DHYG 2240 PREVENTIVE PERIODONTICS 1-0-1

Prerequisite: DHYG 1102 and DHYG 1140

Prevention of periodontal diseases, treatment planning, and case presentations.

DHYG 2250 DENTAL PUBLIC HEALTH 2-3-3

Prerequisite: DHYG 2201

Aspects of public health and needs of the community. Application of modern methods of dental health education. Field experiences.

DHYG 2290 INDEPENDENT STUDY FOR RE-ENTRY INTO PROFESSIONAL DENTAL HYGIENE**V-V-(1-6)**

Prerequisite: permission of instructor or department

Didactic and clinical component for updating knowledge of and skills in current dental hygiene practice.

ECEG—Early Childhood Education**ECEG 5450U ECONOMICS EDUCATION FOR TEACHERS****3-0-3**

The study of basic microeconomic and macroeconomic concepts, methodology, resources for incorporating economics in the school curriculum, and teaching material development at the appropriate grade levels.

ECON—Economics**ECON 1150 GLOBAL ECONOMIC PROBLEMS****3-0-3**

Impact of international trade, international finance, and foreign direct investment on various parts of the world with emphasis on current world economic problems.

ECON 2030 PRINCIPLES OF ACCOUNTING I**3-0-3**

Prerequisite: eligibility for MATH 1111

Fundamental principles and practices of accounting; the construction and interpretation of balance sheets and profit and loss statements; the theory of debits and credits and their application to the accounting process.

ECON 2040 PRINCIPLES OF ACCOUNTING II**3-0-3**

Prerequisite: ECON 2030

The application of accounting principles to specialized problems found in proprietorships, partnerships and corporations, with emphasis on cost accounting theory, modern methods of data processing, and the sources and applications of funds.

ECON 2105 PRINCIPLES OF MACROECONOMICS**3-0-3**

Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1111

Develops methods and reasons for measuring aggregate economic activity in real and nominal terms, models the determination of national income, and considers fiscal and monetary policy alternatives and analyzes their implications. Problems associated with achieving and maintaining aggregate economic stability are discussed.

ECON 2106 PRINCIPLES OF MICROECONOMICS**3-0-3**

Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1111

Comprehensive coverage of individual market functioning, beginning with the concept of scarcity and the economizing problem and moving to supply and demand, is presented. The concept of elasticity is introduced and its measurement and interpretation in a variety of applications is demonstrated. The theories of consumer choice and the production-costs relationship are developed. Individual firm profit maximizing behavior is analyzed and applied to various demand conditions, market structures.

ECON 3050 INTERMEDIATE MACROECONOMICS**3-0-3**

Prerequisite: ECON 2105

Analysis of theories of national income determination and the factors affecting employment and price level are presented.

ECON 3060 INTERMEDIATE MICROECONOMICS**3-0-3**

Prerequisite: ECON 2106 and either MATH 1950 or MATH 1161

Theory of pricing, distribution, and allocation of resources in a market economy including production and cost theory.

ECON 3100 MULTINATIONAL ECONOMIC ENTERPRISES**3-0-3**

Prerequisite: ECON 2105

Evolution of multinational economic enterprises and their effect on jobs and exports/imports in the U.S. and on the economics of less developed countries.

ECON 3450 ENVIRONMENTAL ECONOMICS**3-0-3**

Prerequisite: ECON 2106

Economic analyses of pollution and pollution abatement policies, renewable and non-renewable natural resources, and equitable and efficient uses of environmental resources.

ECON 3470 ECONOMICS OF HEALTH**3-0-3**

Prerequisite: ECON 2106

Analysis of the roles and functions of uncertainty, asymmetric information, externalities, institutions, and government involvement in the health care sector.

ECON 3500 MANAGERIAL ECONOMICS**3-0-3**

Prerequisite: ECON 2106

Examination of economic theories used in decision making in the private sector including demand and elasticity, production and cost theory, pricing policies, linear programming, and capital budgeting.

ECON 3600 MATHEMATICAL ECONOMICS**3-0-3**

Prerequisite: ECON 2105 and ECON 3060 and either MATH 1161 or MATH 1950

Examination of selected topics in economic theory using mathematics including development of portions of consumer and producer theory and static and dynamic models from macro theory and international finance.

ECON 3700 ECONOMETRICS**3-0-3**

Prerequisite: ECON 2105 and ECON 2106 and MATH 2200

Applied econometrics including parameter estimation, inference, hypothesis testing, and problems of designing econometric models.

ECON 3800 QUANTITATIVE CONSUMER RESEARCH**3-0-3**

Prerequisite: ECON 2106 and MATH 2200

Research design, data sources and collection, project and client management, data analysis, and reporting/presentation of empirical results pertaining to quantitative studies of consumer behavior. Requires use of computers for statistical analysis and presentations.

ECON 3950 RESEARCH IN ECONOMICS**V-V-(1-3)**

Prerequisite: permission of department head, agreement by a faculty member to supervise research. Open to juniors. Uncompensated research to be assigned and directed by an economics faculty member. Students will conduct research using methods appropriate to economics. Student research may include a literature search, field or laboratory observation or experimentation, data collection and analysis, and written and/or oral presentation of results. The research experience and results will be evaluated by a committee of departmental faculty before and upon completion of the research. Credit will vary depending upon the work to be completed. Up to three (3) credit hours may be earned.

ECON 3960 RESEARCH IN INTERNATIONAL ECONOMICS**V-V-(1-3)**

Prerequisite: permission of department head and supervising faculty member

Open to juniors. Research on a topic developed from international study directed by an economics faculty member according to the terms of a signed agreement among the student, supervising faculty member, and department head. The research experience and results will be evaluated by a committee of departmental faculty before and upon completion of the research.

ECON 4100 FINANCIAL ECONOMICS: PORTFOLIO ANALYSIS**3-0-3**

Prerequisite: ECON 2105 and ECON 2106 and MATH 2200

Study of the pricing of financial assets such as stocks and bonds, the characteristics of portfolios of financial assets, and the efficiency of financial markets. Practical applications of financial economics principles to the construction and management of portfolios of assets.

ECON 4150 MONEY AND CAPITAL MARKETS**3-0-3**

Prerequisite: ECON 2105 and ECON 2106

An examination of the role of money and financial institutions in the exchange process, the Federal Reserve's monetary policy strategy, and the impact of monetary policy on financial markets and aggregate economic activity.

ECON 4400 SEMINAR IN THIRD WORLD ECONOMIC DEVELOPMENT 3-0-3

Prerequisite: ECON 2105

Developing areas and their prospects for economic betterment and different theories of underdevelopment including import substitutions and export-led growth. Focus on problems presently facing the third world.

ECON 4410 REGIONAL ECONOMICS 3-0-3

Prerequisite: ECON 2105 and ECON 2106

The economic structure, growth of regions, city locations, industrial locations, the short-run impact of industrial change upon employment, and long-run per capita income between regions.

ECON 4450 COMPARATIVE ECONOMICS 3-0-3

Prerequisite: ECON 2105 or ECON 2106 or permission of instructor

Alternative economics systems as they relate to property rights and incentives, centralization, resource allocation, distribution of income, economic development, and economic transition.

ECON 4451 INDUSTRIAL ORGANIZATION 3-0-3

Prerequisites: ECON 2106 and either MATH 1950 or MATH 1161

Examination of the organization and behavior of firms, including analysis of the structure of intra-firm and inter-firm contracts, strategic output and pricing decisions, and analysis of the structure of industries.

ECON 4460 ECONOMIC ANALYSIS OF THE LAW 3-0-3

Prerequisite: ECON 2106

Efficacy of alternative legal arrangements using microeconomic analysis of the common law emphasizing property, contract, tort and criminal law. Topics include the economic basis for the establishment of property rights, ownership solutions to environmental problems, the efficacy of the contract process, and conditions under which breach of contract may be optimal.

ECON 4500 PUBLIC FINANCE 3-0-3

Prerequisite: ECON 2105 and 2106

Application of economic principles to the study of the role of government. Emphasis on the reasons for and the effects of government intervention in the economy including market failure, public goods and externalities, public choice, and political equilibrium. Focus on taxation, public debt and cost benefit analysis, and some selected areas of public policy such as welfare, defense, and health care.

ECON 4520, -30, -40 INTERNSHIP 3-0-3

Prerequisite: permission of instructor or department head

Open to juniors or above. Applied economic setting using nonprofit agencies such as the Chamber of Commerce, as well as financial institutions and international businesses. Supervision by departmental instructors and agency officials. Students may use only one internship as part of their eight upper-division economics classes. Open to transient students only with permission of department head.

ECON 4550 PUBLIC CHOICE 3-0-3

Prerequisite or corequisite: ECON 3060 or permission of instructor

Application of economic theory and methodology to the study of non-market (political, governmental and other collective) decision making. Causes and consequences of governmental growth, elections, the behavior of bureaucrats, competition among interest groups, and constitutional economics.

ECON 4900 ECONOMIC METHODS AND SENIOR THESIS 3-0-3

Prerequisite or corequisite: ECON 3050, ECON 3060, and ECON 3700

Should be taken the last term available before graduation. Review of the methods and tools of economic analysis culminating in an extensive research report which will be evaluated by a departmental committee. International economics track requires topic related to international economics. Honors senior theses must meet the standards for presentation at a professional conference or submission to a journal.

ECON 5010U, -20U, -30U SPECIAL TOPICS IN ECONOMICS**3-0-3**

Prerequisite for ECON 5010U: ECON 2105; Prerequisite for ECON 5020U: ECON 2106

Prerequisite for ECON 5030U: ECON 2105, ECON 2106 and MATH 2200

Upper-level courses not otherwise offered in the economics curriculum. Various substantive topics, theoretical issues and problems, with possibility to repeat with different topics. No more than two such courses counted in the minor.

ECON 5111U ECONOMICS OF ENTREPRENEURSHIP I**3-0-3**

Prerequisite: permission of instructor

A project based class focusing on the application of economic principles to real-world business formation and management. This course provides instruction in both the legal and logistical requirements of starting a business and serves as a forum for development of business ideas and practices. (Economics majors may only use this course under the Related Field Courses).

ECON 5112U ECONOMICS OF ENTREPRENEURSHIP II**3-0-3**

Prerequisite: ECON 5111

Continuation of Economics and Entrepreneurship I, this course will cover advanced business challenges including the financial requirements of starting businesses. Students will work in groups to develop a viable business plan that will be presented to local business owners for review. (Economics majors may only use this course under the Related Field Courses).

ECON 5200U INTERNATIONAL TRADE**3-0-3**

Prerequisite: ECON 2106 or permission of instructor

The economic importance and problems of international trade, including theories of international trade, the gains from trade, tariffs, and non-tariff barrier to trade, U.S. commercial policy, Economic integration, and trade policies of developing countries.

ECON 5300U MONEY AND BANKING**3-0-3**

Prerequisite: ECON 2105 or permission of instructor

The study of governmental and corporate finance, with emphasis on fiscal and monetary policy, open-market operations, discount policy, and the functions and problems associated with central banking.

ECON 5310U INTERNATIONAL FINANCE**3-0-3**

Prerequisite: ECON 2105

International monetary relations, different exchange rate systems, the balance of payments disequilibrium, and a survey of major international financial institutions, including IMF and the World Bank.

ECON 5340U INTERNATIONAL ECONOMICS**3-0-3**

Prerequisite: ECON 2105

International monetary relations, different exchange rate systems, the balance of payments adjustment, and a survey of major international financial institutions.

ECON 5400U ECONOMICS OF LABOR**3-0-3**

Prerequisite: ECON 2106

Survey of labor economics and labor relations, organization and operation of American trade unionism, collective bargaining, economics of the labor market, wage theory and income distribution are included.

ECON 5630U ECONOMIC HISTORY OF THE UNITED STATES**3-0-3**

The growth and development of economic institutions in the United States from the colonial period to the present, with emphasis on the period since 1860. Developments in agriculture, industry, labor, transportation, and finance.

ECUG—Early Childhood Education**ECUG 3040 DIVERSITY IN CHILDHOOD AND ADOLESCENCE****2-2-2**

Prerequisite: EDUC 2110 and EDUC 2120

Comprehensive overview of developmental process from prenatal through adolescence. Directed field experience.

ECUG 3060 LANGUAGE, LEARNING AND COGNITION**2-2-2**

Prerequisite: EDUC 2110, EDUC 2120, 2130

Normal development of language with emphasis on oral language and the relationships between cognition, speech and language. Directed field experience.

ECUG 3071 LITERATURE AND LANGUAGE ARTS**3-3-3**

Prerequisite: admission to Candidacy in the Department of Early Childhood Education and ECUG 3040 and ECUG 3060

Emergence of reading/writing processes during preschool, kindergarten, and early first grade years and the methods of presenting and integrating literature in the curriculum. Directed field experience.

ECUG 3072 TEACHING OF READING**3-3-3**

Prerequisite: Admission to Candidacy in the Department of Early Childhood Education, ECUG 3060 and ECUG 3071

Developmental reading program with emphasis on reading skills, approaches, techniques, materials, and evaluation including directed field experiences.

ECUG 3100 CONTEMPORARY SOCIAL ISSUES OF THE FAMILY**2-2-2**

Prerequisite: Admission to Candidacy in the Department of Early Childhood Education, EDUC 2110, EDUC 2120 & 2130

The institution of family in its cultural context as a living, dynamic system with attention to social context of parenting and parents as advocate for children. Directed field experience.

ECUG 3750 INTERNSHIP I - PRE-STUDENT TEACHING**0-V-3**

Prerequisites: admission to Candidacy in the Department of Early Childhood Education and departmental approval

Directed field experience in the teaching of students in an Early Childhood setting.

ECUG 4070 SOCIAL STUDIES**3-3-3**

Prerequisite: admission to Candidacy in the Department of Early Childhood Education and ECUG 3040

Selected themes, problems, concepts, and organization of instruction for social studies skills and processes needed by young children. Directed field experience.

ECUG 4080 LIFE AND PHYSICAL SCIENCE**3-3-3**

Prerequisite: admission to Candidacy in the Department of Early Childhood Education

Content and skills to plan and implement a discovery science program for young child including strategies, evaluation, technology, materials and current practices. Directed field experience.

ECUG 4090 CLASSROOM MANAGEMENT**3-3-3**

Prerequisite: admission to Candidacy in the Department of Early Childhood Education and ECUG 3100 and ECUG 3040

Research knowledge base to create a well managed classroom and guide the behavior of young children. Directed field experience.

ECUG 4240 PRACTICUM IN INDIVIDUAL READING INSTRUCTION**3-8-3**

Prerequisite or corequisite: admission to Candidacy in the Department of Early Childhood Education and ECUG 3040 and ECUG 3060 and ECUG 3072

Directed practice in the teaching of reading with emphasis on diagnosis and teaching of needed reading skills.

ECUG 4300 DIAGNOSING AND PRESCRIBING FOR READING PROBLEMS**3-3-3**

Prerequisite: ECUG 4090 and ECUG 3072

Corequisite: ECUG 4750

Diagnostic and prescriptive principles underlying assessment and correction of learning problems. Directed field experience.

ECUG 4410 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION**1-V-1**

Pre-requisites: Admission to Candidacy in the Department of Early Childhood Education and ECUG 3040 and ECUG 3060, and permission of instructor.

Emerging trends in early childhood education; subject announced when course is offered. May be repeated for additional credit when topics change.

ECUG 4420 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 2-V-2

Pre-requisites: Admission to Candidacy in the Department of Early Childhood Education and ECUG 3040 and ECUG 3060, and permission of instructor.

Emerging trends in early childhood education: subject announced when course is offered. May be repeated for additional credit when topics change.

ECUG 4430 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION 3-V-3

Pre-requisites: Admission to Candidacy in the Department of Early Childhood Education and ECUG 3040 and ECUG 3060, and permission of instructor.

Emerging trends in early childhood education: subject announced when course is offered. May be repeated for additional credit when topics change.

ECUG 4750 INTERNSHIP II - STUDENT TEACHING 0-V-12

Prerequisites: admission to Candidacy in the Department of Early Childhood Education and completion of all coursework

Supervised field-based teaching experiences providing the opportunity to use knowledge and skills in a P-5 public school setting.

ECUG 4811 INTERNSHIP I 0-V-6

Prerequisite: permission of department head and admission to College of Education

Supervision for one semester by college faculty of students who hold teaching positions in a school and/or clinical setting.

ECUG 4812 INTERNSHIP II 0-V-6

Prerequisite: permission of department head and admission to College of Education

Supervision for one semester by college faculty of students who hold teaching positions in a school and/or clinical setting.

EDUC-Education**EDUC 2110 INVESTIGATING CRITICAL AND CONTEMPORARY ISSUES IN EDUCATION 3-1-3**

Prerequisites: None

Overview of the critical and contemporary issues facing the field of professional educators, including social and political contexts of educational settings in Georgia and the US. Ten hours of directed field experience is required.

EDUC 2120 EXPLORING SOCIO-CULTURAL PERSPECTIVES ON DIVERSITY IN EDUCATION CONTEXTS 3-1-3

Prerequisites: None

Exploration of the fundamental knowledge for understanding the culture and teaching of children from diverse backgrounds. Ten hours of directed field experience is required.

EDUC 2130 EXPLORING LEARNING AND TEACHING 3-1-3

Prerequisites: None

An exploration of key aspects of learning and teaching, with direct applications to the enhancement of learning in a variety of educational settings and contexts. Ten hours of directed field experience is required.

EDUC 3100 TECHNOLOGY APPLICATIONS FOR TEACHERS 2-0-2

Prerequisites: Two of the following courses: EDUC 2110, EDUC 2120, and/or EDUC 2130

Fundamental computer application programs are explored and connections are established with best practice instructional methodology. LiveText data management portfolio software is required. Course serves as the entry point for admission into the College of Education.

EDUC 3200 CURRICULUM, INSTRUCTION, AND ASSESSMENT 3-0-3

Prerequisites: Admission to Candidacy in the Department of Middle Grades and Secondary Education
Overview of the best practices associated with the design of curriculum, the planning and implementation of instruction, and the skills necessary to design authentic assessment materials.

EDUC 3300 EDUCATING STUDENTS WITH DISABILITIES IN THE GENERAL EDUCATION CLASSROOM**3-0-3**

Prerequisites: Admission into the College of Education

Survey of specific disabilities and the impact they have on learning for the P-12 student. Strategies for academic modification, social skill development, and behavior management as well as federal and state legislation will be presented. Meets certification requirements for H.B. 671.

EDUC 3400 CLASSROOM MANAGEMENT STRATEGIES**3-3-3**

Prerequisites: admission to Candidacy in the Department of Middle Grades and Secondary Education
An overview of classroom management theory and best practices as related to the characteristics of learners and effective pedagogy. Directed field experiences required.

ENGL–English**ENGL 0099 BASIC COMPOSITION****3-0-3**

Prerequisite: placement according to Compass score

Sequence of reading and writing assignments. Writing process with emphasis on invention and revision. Editing skills for refining and correcting prose. CPE preparation.

ENGL 1101 COMPOSITION I**3-0-3**

Prerequisite: Each student must attain at least one of the following prior to enrolling: (a) a score of at least 380 SAT Verbal and 40 or above on the TSWE (Test of Standard Written English) or 20 on the verbal section of the ACT; or (b) a passing score on the Compass in English and in reading; or (c) exit learning support English and learning support reading successfully.

A composition course focusing on skills required for effective writing in a variety of contexts, with emphasis on exposition, analysis, and argumentation, and also including introductory use of a variety of research skills.

ENGL 1102 COMPOSITION II**3-0-3**

Prerequisite: ENGL 1101 with a grade of C or better

A composition course that develops writing skills beyond the levels of proficiency required by ENGL 1101, that emphasizes interpretation and evaluation, and that incorporates a variety of more advanced research methods.

ENGL 1102H HONORS COMPOSITION II**3-0-3**

Advanced reading of and writing about literary texts; fulfillment of all ENGL 1102 requirements at a higher level of achievement. Student must have any one of the following: admission to Armstrong Atlantic Honors Program; a score of three or above on AP exam; an NCTE writing award; recommendation of English instructor and approval of department head with a minimum final grade of B in ENGL1101.

ENGL 2050 AFRICA AND THE DIASPORA**3-0-3**

Broad interdisciplinary inquiry into creative literature and social criticism as well as other forms of cultural expression of Africa, Caribbean, black U.S. and Europe. Interrogation of such issues as effects of migration and transculturation; dissent from traditional cultural formations in terms of gender; identity formations according to national, traditional, global values.

ENGL 2000 ETHICS AND VALUES IN LITERATURE**2-0-2**

Prerequisite: ENGL 1102 or ENGL 1102H

Examination of ethical issues and human values in the context of selected literary works. Topics may include moral relativism and absolutism; ethical encounters with suffering; meanings and descriptions of evil; models of character and virtue; the role and relation of motivation and behavior to morality.

ENGL 2100 LITERATURE AND HUMANITIES**3-0-3**

Prerequisite: ENGL 1102 or ENGL 1102H

Examination of literature as an expression of the humanities through study of several complete works from at least two historical periods, two genres, and two cultures/countries. Includes an essay or project involving documentation.

ENGL 2100H HONORS LITERATURE AND HUMANITIES 3-0-3

Prerequisite: acceptance in honors program

Advanced reading of and writing about literary texts; fulfillment of all ENGL 2100 requirements at a higher level of achievement. Recommendation of English instructor and approval of department head based on a minimum final grade of B in ENGL 1102 or ENGL 1102H.

ENGL 2121 BRITISH LITERATURE I 3-0-3

Prerequisite: ENGL 2100 or permission of department head

A survey of important works of British literature from the Old English period through the neoclassical age.

ENGL 2122 BRITISH LITERATURE II 3-0-3

Prerequisite: ENGL 2100 or permission of department head

A survey of important works of British literature from the romantic era to the present.

ENGL 2131 AMERICAN LITERATURE I 3-0-3

Prerequisite: ENGL 2100 or permission of department head

A survey of American literature from the pre-colonial age to the mid-nineteenth century.

ENGL 2132 AMERICAN LITERATURE II 3-0-3

Prerequisite: ENGL 2100 or permission of department head

A survey of American literature from the mid-nineteenth century to the present.

ENGL 3010 INTRODUCTION TO LITERARY STUDIES 3-0-3

Prerequisite: ENGL 2100 or permission of department head

Vocabulary and approaches of modern literary criticism, reading and interpretation of literary texts, and the tools of literary research and writing.

ENGL 3020 INTRODUCTION TO COMPOSITION STUDIES 3-0-3

Prerequisite: ENGL 2100 or permission of department head

Application of theories to the teaching of composition. Devising assignments, conducting class sessions, writing essays, and responding to academic writing.

ENGL 3141 BIBLE AS LITERATURE 3-0-3

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

An examination of the Bible from the perspective of literary analysis, focusing on the Bible's historical, generic, and narrative contexts as well as its subsequent influence on Western literature.

ENGL 3700 INTRODUCTION TO COMMUNICATIONS 3-0-3

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Survey of the profession, designed to familiarize majors with the history of communications as a profession, to introduce them to the number and variety of careers available to communicators, and to suggest methods of career planning.

ENGL 3720 BUSINESS AND TECHNICAL COMMUNICATION 3-0-3

Prerequisite: ENGL 1102

Reporting of technical information in descriptions, instructions, memos, reports, and proposals. Emphasizes writing clear, persuasive prose and giving effective oral presentations.

ENGL 4700 ADVANCED COMPOSITION 3-0-3

Prerequisite: ENGL 2100 or permission of department head

Advanced study of expository and argumentative techniques. Crosslisted as LING 4700.

ENGL 4740 CREATIVE WRITING (POETRY) 3-0-3

Prerequisite: ENGL 2100 or permission of department head

Workshop format. Critique of poems by other students and professor through written statement and class discussion.

ENGL 4750 CREATIVE WRITING (FICTION)**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

Workshop format. Critique of stories by other students and professor through written statement and class discussion.

ENGL 4880 INTERNSHIP II - STUDENT TEACHING**0-V-12**

Prerequisites: Admission to College of Education, completion of all required content and pedagogy course work

Supervised field-based teaching experience providing the opportunity to use knowledge and skills in a grade 6-12 public school setting. For students in the B.A. program in English with teacher certification.

ENGL 4900, -10 INDEPENDENT STUDY**V-V-3**

Prerequisite: ENGL 2100 or permission of department head

Open to seniors. To be determined by student and professor. Available to transient students only with approval of the department head.

ENGL 4990 INTERNSHIP**V-0-(1-9)**

Prerequisite: 2.5 grade point average; supervisory staff member; recommendation of the department head.

Open to juniors and above. Offered by special arrangement. Repeatable up to a maximum of nine credit hours. Off-campus study, work and/or research, jointly supervised by sponsoring institution and staff member. Nine hours credit requires forty hours a week at sponsoring institution, 6 hours credit requires twenty-five hours, 3 hours credit requires fifteen hours.

ENGL 5000U SPECIAL TOPICS**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

Subject announced when course offered. May be repeated for additional credit when topics change.

ENGL 5200U POSTCOLONIAL LITERATURE**3-0-3**

Prerequisite: ENGL 2100

Literature and theory that emphasizes the interactions between European nations and the societies they colonized.

ENGL 5215U LITERATURE OF THE NON-WESTERN WORLD**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

Explorations of literatures outside or at the margin of Western literary traditions. The course is topical, and not limited by specific cultural, generic, or linguistic boundaries. Sample topics might include Tri-Continentalism, The Novel in World Literature, Africa and the Atlantic Rim, Postcolonialism, The Epic Tradition, The Trickster in World Literature, or the Classic Chinese Novel. This course may be repeated with different topics.

ENGL 5225U LITERATURE OF THE WESTERN WORLD**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

Examination of the Western literary canon, exclusive of works originally written in English, through extended reading of Homer, Dante, Cervantes, Goethe, Dostoyevsky, and Proust, focusing on the linguistic, formal, cultural, and historical context that shaped them.

ENGL 5280U LITERATURE AND THE ENVIRONMENT**3-0-3**

Prerequisite: ENGL 2100, or permission of department head

An examination of representations of the environment in literature and theory. Readings in ecological literary criticism as well as fiction and literary nonfiction from various world areas and historical periods.

ENGL 5315U 17TH AND 18TH CENTURY AMERICAN LITERATURE**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

An examination of the responses of American novelists, poets, and prose writers to the issues of these centuries, with attention to characteristic themes, genres, and stylistic features.

ENGL 5325U 19TH CENTURY AMERICAN LITERATURE**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

An examination of the responses of American novelists, poets, and prose writers to the issues of this century, with attention to characteristic themes, genres, and stylistic features.

ENGL 5335U 20TH CENTURY AMERICAN LITERATURE**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

An examination of the responses of American novelists, poets, and prose writers to the issues of this century, with attention to characteristic themes, genres, and stylistic features.

ENGL 5340U LITERATURE BY WOMEN**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

Exploration of literature written by women within its social, historical, and theoretical contexts. Topics such as renaissance and medieval women writers, nineteenth century novels by women, feminist theory and criticism, contemporary poetry by women.

ENGL 5350U AFRICAN AMERICAN LITERATURE**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

African American literature, with emphasis on historical, philosophical, and cultural contexts. Topics such as the oral tradition, autobiographies, the Harlem renaissance, literary criticism and theory.

ENGL 5380U SOUTHERN LITERATURE**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

Southern literature in its distinctive social and aesthetic contexts.

ENGL 5415U THE NOVEL**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

An exploration of the origins and development of the novel as a distinct literary form, examining the aesthetic, philosophical, and social concerns that inform selected works from the eighteenth, nineteenth, and twentieth centuries. The course may focus primarily on the American or the British novel, or it may integrate the two through a specific thematic focus.

ENGL 5425U AMERICAN/BRITISH POETRY**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

American and/or British poetry in the context of technological developments, philosophical movements, and literary currents. Exploration of forms and themes with emphasis on prosody and interpretation.

ENGL 5435U TOPICS IN DRAMA**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

Study of a selected topic in English, American, or World dramatic literature. May be repeated for additional credit when topics change.

ENGL 5440U EARLY ENGLISH LITERATURE**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

English literature from its beginnings through 1485. Includes study of medieval phonology, morphology, and syntax. Writers include the Beowulf poet and other old English authors, early Middle English lyrics and the major figures of the fourteenth century (the Pearl poet, Malory, Langland, Gower). Crosslisted as LING 5440U.

ENGL 5455U SHAKESPEARE**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

A selection of Shakespeare's tragedies, comedies, and history plays illustrating representative themes and literary techniques of the dramatist, as well as his links to contemporary issues of his day.

ENGL 5465U CHAUCER**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

Chaucer's two masterpieces, *The Canterbury Tales* and *Troilus and Criseyde*, and minor poetry. Includes in-depth study of Chaucer's culture, context, and language. Crosslisted as LING 5465U.

ENGL 5480U LITERATURE OF THE ENGLISH RENAISSANCE 3-0-3

Prerequisite: ENGL 2100 or permission of department head

A selection of representative literary works from the period 1485–1689. Typical topics include the rise of the sonnet, the Metaphysical and Neoclassical poetic schools, the growth of English prose, and non-Shakespearean drama.

ENGL 5485U MILTON 3-0-3

Prerequisite: ENGL 2100 or permission of department head

Study of Milton's early lyric poetry, *Paradise Lost*, *Samson Agonistes*, *Areopagitica*, and the divorce and monarchy tracts.

ENGL 5500U 18TH CENTURY BRITISH POETRY AND PROSE 3-0-3

Prerequisite: ENGL 2100 or permission of department head

British poetry and prose from 1690 to 1784, with an emphasis on the philosophic and aesthetic concerns of the age. Authors include but are not limited to Swift, Pope, Johnson, and Fielding.

ENGL 5525U 19TH CENTURY BRITISH POETRY AND PROSE 3-0-3

Prerequisite: ENGL 2100 or permission of department head

The literary culture of the nineteenth century, including examinations of the works and contexts of the major figures in Romantic and Victorian literature. An examination of the responses of novelists, poets, and prose writers to the issues of the century. Exploration of the conflicts between science and religion, faith in "progress" and the growth of industrialism, the rights of the individual and of society, and the role of the artist.

ENGL 5535U 20TH CENTURY BRITISH POETRY AND PROSE 3-0-3

Prerequisite: ENGL 2100 or permission of department head

The literary culture of the twentieth century, including examinations of the works and contexts of the major figures in modern and contemporary literature. An examination of the responses of novelists, poets, and prose writers to the issues of the century. These writers will be examined within the context of continental developments, the World Wars, and the post-war period. The literary traditions and cultural movements of the century will be explored.

ENGL 5550U CONTEMPORARY LITERATURE 3-0-3

Prerequisite: ENGL 2100 or permission of department head

Fiction and/or poetry since World War II as it relates to literary traditions and cultural movements; topics possibly including postmodernist fiction, ethnic writers, confessional poetry.

ENGL 5590U POPULAR LITERATURE 3-0-3

Prerequisite: ENGL 2100

Focus on popular literary genres, such as science fiction, horror, Arthurian legend, and detective fiction. Topics vary.

ENGL 5610U MAJOR AUTHOR 3-0-3

Prerequisite: ENGL 2100 or permission of department head

Subject announced when course offered. May be repeated for additional credit when topics change.

ENGL 5730U RHETORIC 3-0-3

Prerequisite: ENGL 2100 or permission of department head

History of rhetoric from Aristotle to the present with emphasis on rhetorical analysis of literature and other forms of discourse.

ENGL 5740U TECHNICAL EDITING 3-0-3

Prerequisite: ENGL 3720

Techniques for editing technical publications including all levels of edit, document management, and collaboration with writers.

ENGL 5750U PUBLICATION DESIGN 3-0-3

Prerequisite: ENGL 3720

Techniques for preparing documents from development to publication.

ENGL 5760U LITERARY NONFICTION**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

History of the personal essay from Greek philosophers through contemporary authors. Reading and writing journals, letters, memoirs, biographies, autobiographies, editorials, and essays about travel, nature, history, current events, and other topics of "fact". Crossing genres by employing authors' private voices and other creative techniques in developing informative, persuasive, entertaining, scholarly, public inquiry.

ENGL 5770U ADVANCED CREATIVE WRITING, POETRY**3-0-3**

Prerequisite: ENGL 4740

The creation of accurate images, the making of successful figures of speech, including simile, metaphor, personification, synecdoche, metonymy, etc. Experimentation with different poetic forms. Workshop format.

ENGL 5780U ADVANCED CREATIVE WRITING, FICTION**3-0-3**

Prerequisite: ENGL 4750

The creation of compelling plot lines and complex characterization; the meaningful integration of setting into storyline; greater experimentation with various points of view. Workshop format.

ENGL 5800U ADVANCED GRAMMAR**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

Current approaches to grammar, including generative, transformational. Phonology, morphology, syntax. Crosslisted as LING 5800U.

ENGL 5815U LITERARY THEORY**3-0-3**

Prerequisite: ENGL 3010 (senior standing strongly recommended)

Introduction to the major currents and models in modern critical and literary theory, their basic concepts, philosophical assumptions, historical and ideological contexts, and applications.

ENGL 5820U HISTORY OF THE ENGLISH LANGUAGE**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

English language from its beginnings in the fifth and sixth centuries to its worldwide expansion in the twentieth. Chronological consideration of language from Old to Middle to modern English. Phonetic, syntactic, and lexical changes emphasizing both external and internal influences. Crosslisted as LING 5820U.

ENGL 5840U CONTENT AND METHODS ENGLISH**3-2-3**

Prerequisites: Admission to the College of Education, EDUC 3200, EDUC 3300

Methods, content, and materials focusing on the teaching of English. Directed field experience required.

ENGL 5990U SENIOR CAPSTONE SEMINAR**3-0-3**

Capstone course required of English majors. Engages students in advanced critical analysis. Requires students to reflect on their process of study. Preparation, revision, and oral presentation of an original research project. Must be taken within 30 hours of graduation.

ENGR—Engineering**ENGR 1100 INTRODUCTION TO ENGINEERING****3-0-3**

Prerequisite: MATH 1111 or a score of at least 550 on the mathematics portion of the SAT

Orientation to the engineering process from problem formulation to the evolution of creative design. Surveys of the various fields of engineering, professional ethics, problem solving, graphical communication, fundamental concepts of engineering, and the use of software applications for technical reports, computing, and engineering design.

ENGR 1170 ENGINEERING GRAPHICS**2-3-3**

Prerequisite: MATH 1113

Introduction to engineering graphics and visualization including sketching, line drawing, simple wire-frame and solid modeling. Development and interpretation of drawings and specifications for product realization.

- ENGR 1171 COMPUTING IN MATLAB** 0-3-1
Prerequisite: CSCI 1301
Introductory computing in MATLAB for students with a solid introductory computing background needing to demonstrate proficiency in the MATLAB language.
- ENGR 1371 COMPUTING FOR ENGINEERS** 3-0-3
Prerequisite or co-requisite: MATH 1161
Foundations of computing with an introduction to design and analysis of algorithm and an introduction to design and construction of programs for engineering problem-solving.
- ENGR 2000 INTRODUCTION TO ENGINEERING MATERIALS** 3-0-3
Prerequisite: CHEM 1211 and PHYS 2211
The structure, property, processing, and performance relationships of engineering materials. Materials selection is treated as part of engineering design.
- ENGR 2001 STATICS** 3-0-3
Prerequisite: PHYS 2211
Pre or Corequisite: MATH 2083
Forces and moments; equilibrium in two and three dimensions; multiforce members; friction; trusses; centroids; area moment of inertia; shear and bending moment of beams; and virtual work.
- ENGR 2010 COMPUTATIONAL MODELING (COMPUTING TECHNIQUES)** 3-0-3
Prerequisites: MATH 2072 and PHYS 2211 and either ENGR 1171 or ENGR 1371
Fundamentals of numerical methods and development of programming techniques for solving engineering problems via computers.
- ENGR 2025 INTRODUCTION TO SIGNAL PROCESSING** 3-3-4
Prerequisites: MATH 2072 and either ENGR 1171 or ENGR 1371
Introduction to signal processing for discrete-time and continuous-time signals, filtering, frequency response, Fourier transform, Z transform. Laboratory emphasizes computer-based signal processing
- ENGR 2030 INTRODUCTION TO COMPUTER ENGINEERING** 3-0-3
Prerequisite: CSCI 1060 or CSCI 1301 or ENGR 1371
Computer systems and digital design principles. Architectural concepts, software, Boolean algebra, number systems, combinational datapath elements, sequential logic, storage elements. Design of DRAM control and I/O bus.
- ENGR 2031 DIGITAL DESIGN LABORATORY** 1-3-2
Prerequisite: ENGR 2030
Design and implementation of digital systems, including a team design project. CAD tools, project design methodologies, logic synthesis, and assembly language programming.
- ENGR 2110 CREATIVE DECISIONS AND DESIGN** 2-3-3
Prerequisite: ENGR 1170
Prerequisite or co-requisite: ENGR 2001
Fundamental techniques for creating, analyzing, synthesizing, and implementing design solutions to open ended problems with flexibility, adaptability, and creativity through team and individual efforts.
- ENGR 2202 DYNAMICS** 3-0-3
Prerequisite: ENGR 2001
Kinematics and dynamics of particles and rigid bodies in one, two, and three dimensions. Work-energy and impulse momentum concepts.
- ENGR 2990 TOPICS IN ENGINEERING** V-V-(1-4)
Prerequisite: announced with the topic
Special topics at freshman and sophomore level of current interest in engineering.
- ENGR 3000 CIVIL ENGINEERING SYSTEMS** 3-0-3
Prerequisite: MATH 2083
Infrastructure viewed from a systems perspective, analytical approaches and modeling of civil engineered facilities, sustainability, engineering economy applications.

ENGR 3100 CIRCUIT ANALYSIS**3-0-3**

Prerequisite: PHYS 2212

Prerequisite or corequisite: MATH 3411

Basic concepts of DC and AC circuit theory and analysis.

ENGR 3111 ELECTRONICS I**4-0-4**

Prerequisite: ENGR 2030 and ENGR 3100

Basic concepts of microelectronic materials, devices, and circuits.

ENGR 3220 MECHANICS OF MATERIALS**3-0-3**

Prerequisite: ENGR 2020 or ENGR 2201

Stress and strain, axially loaded members, torsion of circular sections, bending of beams, transformation of stress and strain, thin-walled pressure vessels and column buckling.

ENGR 3230 FLUID MECHANICS**3-0-3**

Prerequisite: ENGR 2020 or ENGR 2202

The fundamentals of fluid mechanics. Topics include: fluid statics, control-volume analysis, the Navier-Stokes equations, similitude, viscous, inviscid and turbulent flows, boundary layers.

ENGR 3320 HEAT TRANSFER**3-0-3**

Prerequisite: ENGR 3230 and MATH 3411

Introduction to the study of heat transfer, transport coefficients, steady state conduction, transient conduction, radiative heat transfer, and forced and natural convection.

ENGR 3322 FUNDAMENTALS OF THERMODYNAMICS**3-0-3**

Prerequisite: CHEM 1211 and MATH 2072 and PHYS 2211 and either CSCI 1301 or ENGR 1371

Introduction to thermodynamics. Thermodynamic properties, energy and mass conservation, entropy and the second law. Second-law analysis of thermodynamic systems, gas cycles, vapor cycles.

ENGR 3700 ENGINEERING ECONOMIC ANALYSIS**2-0-2**

Prerequisite: MATH 1161

Fundamental principles of basic techniques of economic analysis of engineering projects including economic measure of effectiveness; time value of money, cost estimation, break-even and replacement analysis.

ENGR 3710 CIRCUITS AND ELECTRONICS**3-0-3**

Prerequisite: PHYS 2212

An introduction to electric circuit elements and electronic devices, and a study of circuits containing such devices. Both analog and digital systems are considered.

ENGR 3770 STATISTICS AND APPLICATIONS**3-0-3**

Prerequisite: MATH 2083

Introduction to probability, probability distributions, point estimation, confidence integrals, hypothesis testing, linear regression, and analysis of variance.

ENGR 3960 ENGINEERING INTERNSHIP**V-V-(1-4)**

Prerequisite: permission of instructor or program coordinator

Practical study experiences in a variety of engineering environments under the direction of faculty and appropriate off-campus supervisors.

ENGR 4990 TOPICS IN ENGINEERING**V-V-(1-4)**

Prerequisites: announced with the topic

Special topics at junior and senior level of current interest in engineering.

ENGR 4999 INDEPENDENT STUDY**V-V-(1-4)**

Prerequisites: permission of the instructor

ETHC–Ethics**ETHC 2000 INTERDISCIPLINARY ETHICS AND VALUES****(2-3)-0-(2-3)**

Prerequisite: ENGL 1101

An interdisciplinary examination of the relation between ethical theory and moral practice in specific areas of our society. This course involves several modules taught by different professors: the first philosophical framework module will provide an explanation and analysis of the principal ethical theories of the western world and subsequent modules will focus on moral issues and case studies in specified areas.

EURO–European Studies**EURO 2000 EUROPEAN UNION****3-0-3**

Prerequisite: ENGL 1101 and either HIST 1111 or HIST 1112

An interdisciplinary course that focuses on the creation and functioning of the European Union and its impact on the United States and the rest of the world.

FILM–Film**FILM 3400 HISTORY OF FILM****3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

History and development of cinema from the silent period to the present time. Crosslisted as THEA 3400.

FILM 3500 INTRODUCTION TO FILM**3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Emphasis on critical appreciation of film as an art form. Crosslisted as JOUR 3500 and THEA 3500.

FILM 5010U TOPICS IN FILM**3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Subject announced when course offered. For example, film genres, auteurs, critical approaches, and individual historical periods. May be repeated for additional credit when topics change. Crosslisted as THEA 5010U.

FILM 5025U POPULAR CULTURE THEORY AND CRITICISM**3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Examination of the theoretical and critical approaches to the study of various forms of popular cultural expression, such as film, television, popular literature, magazines, and music. Critical methodologies present may include semiotics, genre criticism, ethnography, feminism, and cultural studies.

FILM 5035U FILM THEORY AND CRITICISM**3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Introduction to the major schools of film theory and criticism and their application to selected film texts.

FILM 5040U WOMEN AND FILM**3-0-3**

Prerequisite: English 2100 or Permission of Department Head

Representations of women in film; may include issues such as feminist film theory and criticism; presentation of female characters in major film genres and movements; women directors, screenwriters, and actors; and women's independent cinema.

FILM 5510U FILM AND LITERATURE**3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Relationship between film and literature with special emphasis on the adaptation of literature into film. Crosslisted as THEA 5510.

FOUN—Education Foundations**FOUN 5010U EDUCATIONAL TESTS AND MEASUREMENT 3-0-3**

Measurements which cover statistical methods, research designs, and research problems; administration and evaluation of psychological tests.

FREN—French**FREN 1001 ELEMENTARY FRENCH I 3-0-3**

Prerequisite: eligibility for ENGL 1101

Elements of French grammar, pronunciation, and oral comprehension. Emphasis on communication skills and listening and reading strategies. Introduction to culture and civilization of the French-speaking world.

FREN 1002 ELEMENTARY FRENCH II 3-0-3

Prerequisite: eligibility for ENGL 1101 and FREN 1001

Continuation of FREN 1001. Elements of French grammar, pronunciation, and oral comprehension. Emphasis on communication skills and listening and reading strategies. Introduction to culture and civilization of the French-speaking world.

FREN 2001 INTERMEDIATE FRENCH I 3-0-3

Prerequisite: eligibility for ENGL 1101 and FREN 1002

Emphasis on Francophone culture using literary and nonliterary texts with continued development of reading, writing, listening, and speaking skills.

FREN 2002 INTERMEDIATE FRENCH II 3-0-3

Prerequisite: eligibility for ENGL 1101 and FREN 2001

Continuation of FREN 2001. Promotion of further awareness of Francophone culture using literary and nonliterary texts with continued development of reading, writing, listening, and speaking skills.

FREN 3010 FRENCH CONVERSATION AND COMPOSITION I: CULTURE 3-0-3

Prerequisite: FREN 2002

Development of oral proficiency and writing skills through group discussions and guided essays, with emphasis on Francophone culture.

FREN 3020 FRENCH CONVERSATION AND COMPOSITION II: LITERATURE 3-0-3

Prerequisite: FREN 2002

Development of oral proficiency and writing skills through group discussions and guided essays, with emphasis on literature.

FREN 3030 ADVANCED GRAMMAR AND SYNTAX 3-0-3

Prerequisite: FREN 3010 and FREN 3020

Advanced analysis and examination of the grammar and syntax of French, stressing written usage through written grammar exercises, translations from French to English, and essays.

FREN 3100 FRENCH CIVILIZATION I 3-0-3

Prerequisite: FREN 3010 and FREN 3020

Survey of the culture and civilization of France. History, geography, politics, the arts and daily life in France from the middle ages to the French Revolution.

FREN 3110 FRENCH CIVILIZATION II 3-0-3

Prerequisite: FREN 3010 and FREN 3020

Analysis of contemporary French society and survey of the Francophone world: geography, sociology, politics, the arts and sciences since 1789 (the French Revolution).

FREN 3200 SPECIAL TOPICS IN FRENCH LITERATURE 3-0-3

Prerequisite: FREN 3030

Subject announced when course is offered. Includes surveys of nineteenth and twentieth century literature. May be repeated for additional credit when topics change.

FREN 3510, -20, -30 STUDY ABROAD**3-0-3**

Prerequisite: FREN 1002 or permission of the instructor

A term abroad of French study in conjunction with the University System of Georgia. Intensive instruction complemented by excursions.

FREN 4010 SPECIAL GENRE**3-0-3**

Prerequisite: FREN 3200

French Literature. Subject announced when course is offered. May be repeated for additional credit when topics change.

FREN 4020 SPECIAL AUTHOR**3-0-3**

Prerequisite: FREN 3200

French Literature. Subject announced when course is offered. May be repeated for additional credit when topics change.

FREN 4900 INDEPENDENT STUDY**1-0-1**

Prerequisite: FREN 3200

Open to transient students only with permission of the department head.

FREN 4990 LANGUAGE INTERNSHIP**V-V-1**

Prerequisite: permission of instructor or department

Open to juniors or above. Individually designed project involving off-campus instruction at the elementary school level (grades 1-6). Three preparation hours per one hour classroom instruction. Supervision by sponsoring institution and French faculty member and coordinated with intern, faculty member, and classroom teacher. Must have minimum 2.75 overall GPA; 3.0 GPA in French.

GEOG–Geography**GEOG 1100 WORLD REGIONAL GEOGRAPHY****3-0-3**

Various regions of the world - natural, cultural, political, and economic with emphasis on fundamental geographic information.

GEOG 2010 INTRODUCTION TO PHYSICAL GEOLOGY**3-0-3**

Prerequisite: eligibility for MATH 1111

Introduction to physical geology focusing on common earth materials, dynamic processes of change, volcanology, seismology, plate tectonics, and the structure and evolution of the earth's crust and inner regions. Crosslisted as GEOL 2010.

GEOG 2120 CULTURAL GEOGRAPHY**3-0-3**

Prerequisite: GEOG 1100 recommended

Topics include the concept of culture, population settlement patterns, technological origins and diffusions, types of economies, and the relationship of man to his environment, with emphasis given to the process of cultural change through time and place. GEOG1100 recommended.

GEOG 3111 PHYSICAL GEOGRAPHY**3-0-3**

Prerequisite: GEOG 1100 or GEOG 2120

Topics covered include earth-sun relationships, weather, climate and climate classification, soils, biogeography, vegetation, and landforms with emphasis on global patterns of distribution.

GEOG 5530U ENVIRONMENTAL GEOGRAPHY**3-0-3**

Prerequisite: GEOG 1100 or GEOG 2120

Survey of interrelationships between the growth and dispersal of human populations, and of other living organisms, such as crop plants, domesticated animals, weeds, and microbes.

GEOG 5550U GEOGRAPHY OF SOUTH ASIA**3-0-3**

Prerequisite: HIST 1111 or HIST 1112

An historical survey of the physical, cultural, and economic geography of the Indian subcontinent.

GEOG 5870U HISTORICAL GEOGRAPHY IN NORTH AMERICA

3-0-3

Prerequisite: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112 or permission of instructor
Geographic relationships in the exploration, settlement, and changing patterns of human occupancy of North America from the seventeenth century to the present.

GEOL–Geology

GEOL 2010 INTRODUCTION TO PHYSICAL GEOLOGY

3-0-3

Prerequisite: eligibility for MATH 1111

Introduction to physical geology focusing on common earth materials, dynamic processes of change, volcanology, seismology, plate tectonics, and the structure and evolution of the earth's crust and inner regions. Crosslisted as GEOG 2010.

GEOL 2010H HONORS PHYSICAL GEOLOGY

3-3-4

Prerequisite: eligibility for MATH 1111

Introduction to earth materials and their characteristics; investigation of the processes that effect change on Earth's materials and landscapes over the long span of geologic time; study of changes in natural systems to restore equilibrium and examination of characteristics of natural hazards in order to minimize human risks. Applications of physical geology emphasized through lab investigations and all-day field trip activities to mines, quarries and landscapes of significant importance. A more in-depth treatment of the topics covered in GEOL 2010.

GEOL 3100 INTRODUCTION TO HISTORICAL GEOLOGY

3-0-3

Prerequisite: eligibility for MATH 1111

History of the earth. Determining geologic time, the history of life as revealed in the fossil record, reconstructing a chronology of events from associated rock bodies.

GERO–Health Science Gerontology

GERO 5500U SURVEY OF GERONTOLOGY

3-0-3

Introduction to the emotional, physiological, and social changes associated with the aging process and their effects on health.

GERO 5510U HEALTHY AGING

3-0-3

Principles of holistic aging: spiritual, social, emotional, occupational, physical, and motivational needs of the elderly.

GERO 5520U GERONTOLOGY PRACTICUM

V-V-3

Prerequisite: permission of instructor or department

Practical experience tailored to the student's interest in collaboration with a faculty member and qualified site supervisor.

GRMN–German

GRMN 1001 ELEMENTARY GERMAN I

3-0-3

Prerequisite: eligibility for ENGL 1101

Elements of German grammar, pronunciation, and oral comprehension, together with an introduction to the culture and civilization of the German-speaking world. Regular practice in language lab is required.

GRMN 1002 ELEMENTARY GERMAN II

3-0-3

Prerequisite: eligibility for ENGL 1101 and GRMN 1001

Elements of German grammar, pronunciation, and oral comprehension, together with an introduction to the culture and civilization of the German-speaking world. Regular practice in language lab is required.

GRMN 2001 INTERMEDIATE GERMAN I

3-0-3

Prerequisite: eligibility for ENGL 1101 and GRMN 1002

Continuation of GRMN 1002. Continued development of reading, writing, listening, and speaking skills.

GRMN 2002 INTERMEDIATE GERMAN II**3-0-3**

Prerequisite: eligibility for ENGL 1101 and GRMN 2001

Continuation of GRMN 2001. Promotion of further awareness of Germanic culture using literary and nonliterary texts with continued development of reading, writing, listening, and speaking skills.

GRMN 3301 GERMAN CONVERSATION AND COMPOSITION I**3-0-3**

Prerequisite: GRMN 2002

Conversational German in simulated situations to develop greater oral proficiency and to promote continued awareness of German culture. Grammar and syntax review through guided essays to develop writing skills in the contact language. Class entirely in German.

GRMN 3302 GERMAN CONVERSATION AND COMPOSITION II**3-0-3**

Prerequisite: GRMN 3301

Continuation of GRMN 3301.

GRMN 3510, -20 STUDY ABROAD**3-0-3**

Prerequisite: GRMN 1002 or permission of instructor

A term abroad of German study in conjunction with the University System of Georgia. Intensive instruction complemented by excursions.

GRMN 4010 SPECIAL GENRE**3-0-3**

Prerequisite: GRMN 3302

Subject announced when course offered. Typical subjects: medieval poetry; prose, poetry, and drama in the seventeenth and eighteenth century; the novella in the nineteenth century; twentieth century prose.

GRMN 4020 SPECIAL AUTHOR**3-0-3**

Prerequisite: GRMN 3302

Subject announced when course offered. Typical authors: Grimmelshausen, Goethe, Schiller, Thomas Mann, Kafka, Grass.

GRMN 4900 INDEPENDENT STUDY**3-0-3**

Prerequisite: GRMN 2001

Open to transient students only with permission of the department head.

GWST—Gender and Women's Studies**GWST 1101 INTRODUCTION TO GENDER AND WOMEN'S STUDIES****3-0-3**

Prerequisite: eligibility for ENGL 1101

Introduction to the major issues and problems in the field of women's studies. Investigation and analysis of women's roles in society, theoretical and practical aspects of equality and gender difference, and the constructions of sex and gender as understood from socio-historical, multi-cultural, and interdisciplinary perspectives. The dynamics and working of gender in such areas as family, work, education, imagery in popular culture, law, technology, environmentalism, sexuality, health, and access to information on reproductive options.

GWST 2101 ETHICS, VALUES, AND GENDER**3-0-3**

Prerequisite: ENGL 1101

An introduction to value theory and ethics focusing on issues of gender and the experience of women. Topics addressed may include equality and difference, free speech and censorship, marriage and the family, reproduction and abortion, love, sex, and friendship, health and medicine, education and learning, feminism and professional ethics, and the challenges of moral relativism.

GWST 2200 GENDER IN GLOBAL CONTEXTS**3-0-3**

Prerequisite: ENGL 1101

Interdisciplinary examination of worldwide cultural differences through the lens of gender.

GWST 4900 GENDER AND WOMEN'S STUDIES JUNIOR/SENIOR SEMINAR 2-3-3

Prerequisite: ENGL 2100 and GWST 1101 and either GWST 2101 or GWST 2200
Course required for GWST majors. Advanced critical analysis and reflection on their course of study. Experience during four-week service-learning component to be integrated into final research project.

GWST 5000U TOPICS IN GENDER AND WOMEN'S STUDIES 3-0-3

Special topics in Women's Studies. Will be cross listed with selected upper-level courses in the university curriculum when content of those courses addresses issues related to Women's Studies. May be repeated for credit with different topics.

GWST 5500U TOPICS IN WOMEN'S LEADERSHIP 3-0-3

Prerequisite: ENGL 2100 and WMST 1101 or WMST 2101
Examination of the basic themes of leadership through the lens of gender studies. The course will address alternative styles of leadership, globalization and women's roles, under representation, the gender gap, and the perseverance of women in traditionally male-dominated careers, professions, and public offices.

GWST 5600U SOCIOLOGY OF GENDER 3-0-3

Prerequisite: SOCI 1101 or POLS 1150 or GWST 1101
Examines the social construction of gender and gender inequality in society.

GWST 5700U PERSPECTIVES IN FEMINIST THEORY 3-0-3

An in-depth look at Feminist Theory. This course may be taught from the perspective of a particular discipline.

HIST—History**HIST 1100 POLITICAL HISTORY OF AMERICA AND GEORGIA 3-0-3**

Prerequisite: eligibility for ENGL 1101
Origins and development of constitutional theory and its political, intellectual, and cultural impact on American society from the seventeenth century to the present. Emphasis is placed on the political history of Georgia and the principles of its constitution. Crosslisted as POLS 1100.

HIST 1111 CIVILIZATION I 3-0-3

Prerequisite: eligibility for ENGL 1101
A survey of the main currents of political, social, religious, and intellectual activity from the earliest civilizations to about 1500. Major civilized traditions of the world considered and compared.

HIST 1112 CIVILIZATION II 3-0-3

Prerequisite: eligibility for ENGL 1101
A survey of the main currents of political, social, religious, and intellectual activity from about 1500 to present. Major civilized traditions of the world considered and compared.

HIST 1112H HONORS CIVILIZATION II 3-0-3

Prerequisite: acceptance in honors program or permission of instructor
Replaces HIST 1112 as a component of the university honors program. While the subject matter is the same as HIST 1112, treatment of it varies greatly. Likewise, instruction goes beyond the usual lecture method, allowing students to read widely under the direction of the professor.

HIST 2000 ETHICS AND VALUES IN HISTORY 3-0-3

Prerequisite or corequisite: ENGL 1101
Selected issues in ethics and values considered from a historical perspective. Topics may include ethics and values in western and/or non-western cultures, the relationship of the good of the citizen to that of the state, family relationships and values, environment and bio-ethics, world view and ethnocentrism.

HIST 2100 THE AFRICAN DIASPORA 3-0-3

Prerequisite: ENGL 1101
Historical overview of the origins of humanity in Africa and the subsequent spread of African peoples around the world.

HIST 2111 HISTORY OF AMERICA TO 1877**3-0-3**

Prerequisite or corequisite: ENGL 1101

A survey of American and United States history from the pre-Columbian period through the Civil War and Reconstruction.

HIST 2112 HISTORY OF AMERICA SINCE 1865**3-0-3**

Prerequisite or corequisite: ENGL 1101

A survey of United States history from Reconstruction to the present.

HIST 3000 SPECIAL TOPICS IN HISTORY**3-0-3**

Reserved for courses not in the regular curriculum which may be taught by visiting professors with expertise in areas of history other than those normally taught by members of the department. May be repeated for credit as topics vary.

HIST 3100 HISTORY OF LATIN AMERICA TO 1850**3-0-3**

Prerequisites: HIST 1111

A survey of Latin American history and culture to 1850. Examines the historical origins of Latin American society.

HIST 3110 HISTORY OF LATIN AMERICA SINCE 1850**3-0-3**

Prerequisites: HIST 1112 or HIST 1112H

A survey of Latin American history and culture since 1850. Examines the causes and consequences of structural instability in Latin America today.

HIST 3150 HISTORY OF AFRICA**3-0-3**

Prerequisites: HIST 1100 or POLS 1100 or HIST 1111 or HIST 1112 or HIST 1112H

A survey of African history.

HIST 3200 TRADITIONAL CHINA**3-0-3**

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H

History of Chinese civilization from ancient times to the early nineteenth century, with emphasis on its characteristic political, social, economic, and cultural developments.

HIST 3210 MODERN CHINA**3-0-3**

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H

History of China from the nineteenth century to the present, with emphasis on political, social, economic, and intellectual developments.

HIST 3220 HISTORY OF JAPAN**3-0-3**

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H

History of Japan from earliest times to present, with primary emphasis on its emergence as a world power since the late nineteenth century.

HIST 3230 HISTORY OF THE MIDDLE EAST**3-0-3**

Prerequisites: HIST 1100 or POLS 1100 and HIST 1111 or HIST 1112 or HIST 1112H

Middle eastern history and Islamic culture and civilization from Muhammad to the present. Emphasis on the background of current issues and conflicts in the region.

HIST 3240 ANCIENT ISRAEL/PALESTINE**3-0-3**Prerequisites: Either HIST 1111, HIST 1111H, HIST 1112, HIST 1112H or permission of instructor
Political and religious developments of Israel/Palestine from the Israelite settlement in Canaan to the destruction of Jerusalem in 70 CE, with special attention to archaeological, epigraphic, and geographical data.**HIST 3300 MODERN RUSSIA****3-0-3**

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H

Russian history from Peter the Great to the present, covering the major political, economic, and social developments of Russia in both the imperial and soviet periods as well as the collapse of the Soviet Union.

HIST 3330 MODERN GERMANY**3-0-3**

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H

History of Germany from the mid-eighteenth century through reunification. Attention given to national socialism and the Third Reich.

HIST 3360 MODERN EAST CENTRAL EUROPE**3-0-3**

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H

History of nations between Germany and Russia in the nineteenth and twentieth centuries. Topics covered include the rise of nationalism, the gaining of independence, problems in establishing democracy, experience in World War II, the establishment of communist control, and post-communist developments.

HIST 3440 EUROPE IN THE MIDDLE AGES**3-0-3**

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H

Survey of major political, economic, and cultural developments from 300-1400.

HIST 3460 THE RENAISSANCE AND REFORMATION**3-0-3**

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H

A study of major political, cultural, economic, and religious developments in Europe from 1400-1648.

HIST 3500 FOUNDATIONS OF HISTORICAL STUDIES**3-0-3**

Prerequisites: HIST 1100 or POLS 1100 or HIST 1111 or HIST 1112 or HIST 1112H

Topics based course in which students deal with different types of historical material to develop skills in research, writing, critical thinking, oral presentation, and the use of computers, as appropriate to the discipline of history. Topics will vary.

HIST 3540 EUROPE IN THE AGE OF REVOLUTION**3-0-3**Prerequisites: Either HIST 1111, HIST 1111H, HIST 1112, HIST 1112H or permission of instructor
European history from 1660-1848 with an emphasis on the intellectual, political, and cultural context of revolution.**HIST 3560 MODERN EUROPE****3-0-3**Prerequisites: Either HIST 1111, HIST 1111H, HIST 1112, HIST 1112H or permission of instructor
Political, social, economic, and cultural developments in Europe from 1849 to the present with emphasis on the rise of radical political movements, the world wars, and the creation of the European Union.**HIST 3570 AMERICAN MILITARY HISTORY****3-0-3**

Prerequisites: HIST 1100 or POLS 1100

History of warfare and military technique in their social, economic, and political contexts, with emphasis on the American military traditions.

HIST 3630 ECONOMIC HISTORY OF THE U.S.**3-0-3**

Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112

Growth and development of economic institutions in the United States from the colonial period to the present, with emphasis on the period since 1860. Developments in agriculture, industry, labor, transportation, and finance. Crosslisted as ECON 3630.

HIST 3640 AMERICAN SOCIAL HISTORY**3-0-3**

Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112

An examination of American social patterns. Topics may include economics, demographics, immigration, gender, politics, and religion.

HIST 3710 COLONIAL AND REVOLUTIONARY AMERICA**3-0-3**

Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or permission of instructor

Discoveries of the new world and the settlement and growth of the English colonies of North America, triumph over France in the new world, the drastic change in British colonial policy and the rise of the American opposition to it, the achievement of independence, and the establishment of the United States under the constitution.

HIST 3730 JACKSONIAN AMERICA (1815-1848)**3-0-3**

Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or permission of instructor

United States history between 1815 and 1848 with attention to economic, political, social, and intellectual developments. Topics include the growth of a more democratic political culture; the market revolution and the commercialization of society; mass immigration and labor; revivalism, reform, manifest destiny, and the beginnings of modern American culture.

HIST 3740 WOMEN IN AMERICAN HISTORY**3-0-3**

Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112

Examination of the changing political, social, and economic roles of American women from the colonial times to the present. Emphasis on the pre-Civil War feminist reform movements, women's broader social and economic roles after the war, increased awareness of the need for political power, the mid-twentieth century revolution, and the particular experiences of southern women.

HIST 3750 CIVIL WAR AND RECONSTRUCTION**3-0-3**

Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112 or permission of instructor
Causes and significance of the American Civil War, with substantial consideration of military campaigns; political, economic, and social aspects of reconstruction.

HIST 3760 U.S. HISTORY 1877-1917**3-0-3**

Prerequisites: HIST 1100 or POLS 1100 or HIST 2112

Presentation of the major subjects of the late nineteenth and early twentieth centuries, including the emergence of a national economy, its theory and policies; partisan and reform politics; American society and social thought; and territorial aggrandizement.

HIST 3770 U.S. HISTORY 1917-1960**3-0-3**

Prerequisites: HIST 1100 or POLS 1100 or HIST 2112

Analysis of the institutions and forces that molded life in the United States from 1917 to 1960.

**HIST 3780 POLITICAL PARTIES AND POLITICAL CULTURE
IN 20TH CENTURY AMERICA****3-0-3**

Prerequisites: HIST 1100 or POLS 1100 or HIST 2112

Emergence of modern political parties in the United States from 1896 through the 1970s. Topics include gilded age politics and the urban political machine; the progressive presidents; FDR, the New Deal, and World War II; cold war politics; Lyndon Johnson and the Great Society; the war in Vietnam; the Nixon years.

HIST 3790 U.S. HISTORY SINCE 1960**3-0-3**

Prerequisites: HIST 1100 or POLS 1100 or HIST 2112

Examination of the society of the United States since 1960, with special emphasis given to the major social and cultural trends.

HIST 3800 INTRODUCTION TO PUBLIC HISTORY**3-0-3**

Prerequisites: any history course

An introduction to the basic historiographic and anthropological approaches used in public history and a survey of the different disciplines such as archaeology, architecture, folklife, decorative arts, museum studies, and preservation which comprise public history.

HIST 3820 INTRODUCTION TO ARCHAEOLOGY**3-0-3**

Survey of archaeology using cross-cultural examples. Focus on history, basic techniques, concepts, theories, and types of research. Crosslisted as ANTH 3820.

HIST 3900 AFRICAN-AMERICAN HISTORY TO 1865**3-0-3**

Prerequisites: HIST 1100 or POLS 1100

Introduction to West African cultural antecedents, attempts at acculturation of Africans into Euro-American culture, the resiliency of African traditions, the dynamics of family and community, the abolition of slavery, and the struggle for equality.

HIST 3910 AFRICAN-AMERICAN HISTORY SINCE 1865**3-0-3**

Prerequisites: HIST 1100 or POLS 1100

Second half of the African-American survey. Explores the different approaches of African-Americans to realize liberty, citizenship, due process, and suffrage. Follows the struggle of African-Americans from 1865 to the present.

HIST 3990 FIELDWORK IN HISTORY**V-V-(1-3)**

Prerequisite: permission of instructor or department

Field-trip based courses or extended site visits, abroad or in the United States. Research, reading, and written assignment tailored to the specific nature of each study tour or site visitation. (Specific area of study indicated on transcript.) Course may be repeated as topics vary, but no more than five hours counted among the 40 hours required for the major in history. Offered only by special advance arrangement with department.

HIST 3991 INTERNSHIP**V-V-(1-3)**

Prerequisite: permission of instructor and department

An individually designed course involving off-campus study and research or work in an appropriate public agency or private business. Application due to the department's Academic Affairs Committee by mid-term of the preceding semester (excluding summer). See department for application and policies. Course is repeatable, but only three hours may be counted for the major.

HIST 4500 RESEARCH SEMINAR IN HISTORICAL METHODS**2-2-3**

Prerequisite: HIST 3500

Advanced study of the nature and methods of historical research, treating problems of investigation, organization, and formal writing. Requires a major research paper using primary sources.

HIST 4811 INDEPENDENT STUDY IN NON-WESTERN HISTORY**3-0-3**

Prerequisite: Permission of instructor and department.

Application due to the department's Academic Affairs Committee by mid-term of the preceding semester (excluding summer). See department for application and policies.

HIST 4831 INDEPENDENT STUDY IN EUROPEAN HISTORY**3-0-3**

Prerequisite: Permission of instructor and department.

Application due to the department's Academic Affairs Committee by mid-term of the preceding semester (excluding summer). See department for application and policies.

HIST 4851 INDEPENDENT STUDY IN AMERICAN HISTORY**3-0-3**

Prerequisite: Permission of instructor and department.

Application due to the department's Academic Affairs Committee by mid-term of the preceding semester (excluding summer). See department for application and policies.

HIST 4871 INDEPENDENT STUDY IN PUBLIC HISTORY**3-0-3**

Prerequisite: Permission of instructor and department.

Application due to the department's Academic Affairs Committee by mid-term of the preceding semester (excluding summer). See department for application and policies.

HIST 4900 SEMINAR IN NON-WESTERN HISTORY**3-0-3**

Prerequisite: HIST 3500

Detailed analysis of a specific problem, theme, or topic in non-western history. Writing-intensive. Format varies: colloquia with extensive readings and the writing of several critical essays, or a research class with a formal research paper.

HIST 4910 SEMINAR IN RUSSIAN HISTORY**3-0-3**

Prerequisite: HIST 3500

Detailed analysis of a specific problem, theme, or topic in Russian history. Writing-intensive. Format varies: colloquia with extensive readings and the writing of several critical essays, or a research class with a formal research paper.

HIST 4920 SEMINAR IN EUROPEAN HISTORY**3-0-3**

Prerequisite: HIST 3500

Detailed analysis of a specific problem theme, or topic in European history. Writing-intensive. Format varies: colloquia with extensive readings and the writing of several critical essays, or a research class with a formal research paper.

HIST 4930 SEMINAR IN AMERICAN HISTORY**3-0-3**

Prerequisite: HIST 3500

Detailed analysis of a specific problem, theme, or topic in American history. Writing-intensive. Format varies: colloquia with extensive readings and the writing of several critical essays, or a research class with a formal research paper.

HIST 4950 PROFESSIONAL INTERNSHIP**V-V-(1-3)**

Prerequisite: HIST 4500

An individually designed course project involving off-campus study and research in a government or private agency. Supervision by sponsoring agency and faculty advisor. May be repeated for credit. Graded on a satisfactory/unsatisfactory (S/U) basis; credited among upper level courses but not part of the minimum 27 hours required for the major. Application and credit arrangements should be made through the department in advance, normally by mid-semester preceding the semester of internship. Must have a minimum grade point average in all history courses and 12 hours of upper level history including HIST 4500.

HIST 4960 AMERICAN HISTORIOGRAPHY**3-0-3**

Prerequisites: HIST 3500 or permission of instructor

A study of the writing of American history with emphasis on the historical philosophies and interpretations of the major schools of thought as well as individual historians.

HIST 4970 EUROPEAN HISTORIOGRAPHY**3-0-3**

Prerequisites: HIST 3500 or permission of instructor

A study of the writing of history in the western cultural tradition, with an emphasis on the historical philosophies, interpretations, and problems raised by major modern historians.

HIST 4990 SENIOR THESIS IN HISTORY**0-6-3**

Prerequisite or corequisite: HIST 4500

Directed research under the supervision of a thesis committee. Application due to the department's Academic Affairs Committee by mid-term of the preceding semester (excluding summer). See department for application and policies.

HIST 5100U TOPICS IN LATIN AMERICAN HISTORY**3-0-3**

Prerequisite: HIST 1111 or HIST 1112 or permission of instructor

Detailed analysis of a specific problem, theme, or topic in Latin American history. May be repeated as topics vary.

HIST 5200U TOPICS IN AFRICAN HISTORY**3-0-3**

Topics in the history of Africa, including political, economic, social, religious, and/or cultural trends as defined by the instructor. May be repeated as topics vary.

HIST 5250U TOPICS IN ASIAN HISTORY**3-0-3**

Prerequisite: HIST 1111 or HIST 1112 or permission of instructor

Detailed analysis of a specific problem, theme, or topic in Asian history. May be repeated as topics vary.

HIST 5300U HISTORY OF RUSSIAN AND SOVIET FOREIGN POLICY**3-0-3**

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H

Examination of topics of Russian and soviet foreign policy from the end of the tsarist period to the present. Analysis of the effect on the international system of the collapse of the Soviet Union and the place of Russia in the world today.

HIST 5450U TOPICS IN MEDIEVAL HISTORY 3-0-3

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H

Study of a topic in medieval history such as the crusades, Byzantine history, or other medieval subjects based on available primary source material. May be repeated as topics vary.

HIST 5470U FRENCH REVOLUTION AND NAPOLEON 3-0-3

Prerequisites: HIST 1112 or HIST 3500 or permission of instructor

Background and events of the French Revolution and the career of Napoleon, considering various and different historical interpretations.

HIST 5480U TOPICS IN EUROPEAN HISTORY 3-0-3

Prerequisites: HIST 1111 or HIST 1112 or HIST 1112H

Selected topics in European history. May be repeated as topics vary.

HIST 5500U TOPICS IN BRITISH HISTORY 3-0-3

Prerequisites: HIST 1100 or POLS 1100 or HIST 1111 or HIST 1112 or HIST 1112H or permission of instructor

Selected topics in the history of Great Britain and Ireland. May be repeated as topics vary.

HIST 5540U TOPICS IN U.S. FOREIGN RELATIONS 3-0-3

Prerequisites: HIST 1100 or POLS 1100

Study of American objectives and policies in foreign affairs. May be repeated as topics vary.

HIST 5560U TOPICS IN THE HISTORY OF GEORGIA 3-0-3

Prerequisites: HIST 3500 or permission of instructor

Topics in the history of Georgia with emphasis on political, economic, social, religious, and cultural trends in the context of the south and the nation.

HIST 5565U TOPICS IN THE HISTORY OF AMERICAN REFORM 3-0-3

Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112

Topics in the history of American reform emphasizing the evolution of social policy as it applies to class, gender, ethnicity, and religion. May be repeated as topics vary.

HIST 5570U TOPICS IN THE HISTORY OF THE AMERICAN SOUTH 3-0-3

Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112

Topics including economic, cultural, social, and political history of the south with emphasis on those factors that made the south a unique section of the nation.

HIST 5640U TOPICS IN THE HISTORY OF TECHNOLOGY AND CULTURE 3-0-3

Prerequisites: any history course

Examination of developments in the history of technology, emphasizing relationships among European and American technologies, societies, and cultures. May be used for European or American history credit, depending upon the emphasis of the course.

HIST 5650U TOPICS IN AFRICAN-AMERICAN HISTORY 3-0-3

Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112

Topics in the history of African-American people emphasizing their social, economic, political, and regional experiences. May be repeated for credit as topics vary.

HIST 5660U TOPICS IN THE HISTORY OF WOMEN AND GENDER IN AMERICA 3-0-3

Prerequisites: one course in American history at 2000 level or above or permission of instructor

Selected topics in the history of women and gender relations in America. May be repeated as topics vary.

HIST 5670U TOPICS IN THE HISTORY OF WOMEN AND GENDER IN EUROPE 3-0-3

Prerequisites: Either HIST 1111, HIST 1111H, HIST 1112, HIST 1112H or permission of instructor

Selected topics in the history of women and gender relations in Europe. May be repeated as topics vary.

HIST 5690U TOPICS IN AMERICAN CULTURE**3-0-3**

Prerequisites: one course in American history at 2000 level or above or permission of instructor
Selected topics in the history of American thought, values, and culture. May be repeated as topics vary.

HIST 5700U AMERICAN MATERIAL CULTURE**2-1-3**

Prerequisite: permission of instructor or department
Introduction to the study of North American and Caribbean culture, ordinarily focused on the eighteenth and nineteenth centuries. Architecture, cemeteries, landscape, dress, music, art, foodways, status, gender, and ethnic identifiers may provide examples.

HIST 5720U HISTORICAL ARCHAEOLOGY**3-0-3**

Prerequisite: HIST 3820 or ANTH 3820
The historical archaeology of the new world from the first arrival of Europeans and Africans to about 1800. Attention focused on the south and the Caribbean, but other frontier contexts may also be included. Emphasis given to anthropological archaeology as a perspective for the writing of history and as a sub-field within public history.

HIST 5730U FIELDWORK IN HISTORICAL ARCHAEOLOGY**V-V-(1-6)**

Prerequisite: HIST 3820 or ANTH 3820
Application of archaeological methods to a specific field project. Excavation techniques, surveying and map making, data collecting and recording, and the interpretation of archaeological data. May be repeated for credit.

HIST 5740U PRACTICUM IN ARCHAEOLOGY**V-V-(1-6)**

Prerequisite: HIST 3800 or ANTH 3800
Application of analytical techniques to a specific research problem. Individual research requiring artifact analysis, techniques from anthropological history, use of computer technologies, curation or conservation of archaeological data. May be repeated as topics vary.

HIST 5750U FOLKLIFE**2-2-3**

Prerequisites: HIST 2111 or HIST 2112
The study of the creation and persistence of tradition in societies and of the process of change as demonstrated in such aspects as narrative, music, song, celebration, festival, belief, and material culture. Emphasis on understanding the multi-ethnic nature of the traditions in American life.

HIST 5770U ORAL HISTORY**1-4-3**

Prerequisites: HIST 3500 or permission of instructor
The study of how to prepare and conduct oral history interviews; how to transcribe, log, and index oral history recordings; and how to use oral history collections in writing research papers.

HIST 5810U TOPICS IN ARCHITECTURAL HISTORY**2-1-3**

Prerequisite: any history course
Selected topics in architectural history, including various styles of architecture (Georgian, federal, neoclassical, eclectic, and modern), and vernacular architecture. Recording techniques, research strategies, theoretical approaches, landscape architecture, field trips, and visiting lecturers. May be repeated as topics vary.

HIST 5830U HISTORIC PRESERVATION**3-0-3**

Prerequisite: HIST4500 recommended
Examination of the field including values, principles, development of planning and organization for preservation; preservation law, economics, and politics.

HIST 5850U MUSEUM STUDIES**2-2-3**

Prerequisites: HIST 3500 or permission of instructor
Development of museums in the United States and of the ethics and practices of the museum profession, to include collections management, planning, outreach, and public education.

HIST 5870U HERITAGE TOURISM**3-0-3**

Prerequisites: HIST 3500 or permission of instructor

History of tourism, with emphasis on heritage and tourism, and of the function and impact of tourism on guest and host societies. Aspects of the modern tourist industry and its products, such as promotional and travel literature, accommodations and transport, and tourist arts also investigated.

HIST 5890U TOPICS IN PUBLIC HISTORY**V-V-(1-3)**

Prerequisites: HIST 3500 or permission of instructor

Special topic in the field of public history defined by the instructor. Taught as a colloquium or seminar.

HIST 5940U FIELDWORK IN HISTORY**V-V-(1-3)**

Prerequisite: permission of instructor or department

Field-trip based and/or engagement in extended site visits, whether abroad or in the United States. Research, reading, and written assignments tailored to the specific nature of each study tour or site visitation. Specific area of study indicated on student transcript. Course may be repeated for credit as topics vary, but no more than three hours counted among the 33 hours required for the major. Offered only by special advance arrangement with the department.

HLPR—Health Professions**HLPR 1100 INTRODUCTION TO HEALTH CARE
AND MEDICAL TERMINOLOGY****3-0-3**

Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1101 or MATH 1111

Introduction to concepts necessary for effective, ethical performance in the health care delivery system. Terminology of medicine. Basic foundation course.

HLPR 1200 MULTIDISCIPLINARY SKILLS IN HEALTH PROFESSIONS**1-3-2**

Prerequisite: eligibility for ENGL 1101 and eligibility for MATH 1101 or MATH 1111

Emphasis on basic patient care skills common to all health professions. Patient and health practitioner safety is emphasized in class laboratory exercises.

**HLPR 2000 INTRODUCTION TO RESEARCH IN THE
HEALTH PROFESSIONS****2-0-2**

Prerequisite: ENGL 1102 and MATH 2200 and either MATH 1101 or MATH 1111

Introduction to methods of scientific research in the health professions. Steps of the research process, critique of research reports, completion of literature review.

HLPR 2010 CULTURE, ILLNESS, DIAGNOSIS AND TREATMENT**(2-3)-0-(2-3)**

Prerequisite: ENGL 1101

Health practices around the world. How different cultural, social and ethnic groups explain the causes of illnesses, the types of treatments they seek, and services available for diagnosis.

HLPR 2400 PRINCIPLES OF PHARMACOLOGY**2-0-2**

Prerequisite: CHEM 1151/1151L and CHEM 1152/1152L and BIOL 2082

Principles of pharmacology to include routes of drug administration, absorption, distribution, tissue accumulation, metabolism, and excretion. Additional topics include pharmacodynamics, drug interactions, toxicology, and changes across the life span.

HONS—Honors**HONS 2000 HONORS TOPICS IN GLOBAL PERSPECTIVES****2-0-2 OR 3-0-3**

Prerequisite: admission to honors program; other prerequisites may vary according to instructor

Designed to offer a topical look at global issues, with topics changing on an annual basis. Course may be repeated for credit as topics vary, but may be counted to fill honors in the core requirement only once.

HONS 2100 HONORS TOPICS IN ETHICS AND VALUES**2-0-2 OR 3-0-3**

Prerequisite: admission to the honors program; other prerequisites may vary according to instructor. An in-depth examination of ethical issues. Students will participate in activities such as group discussions and debates on topical ethical issues. Course may be repeated for credit as topics vary, but may be counted to fill honors in the core requirement only once.

HSCA – Health Services Administration**HSCA 3600 FINANCIAL MANAGEMENT FOR HEALTH-RELATED ORGANIZATIONS****3-0-3**

Prerequisite or Corequisites: None

Introduction to concepts of organizational financial management in the health industry.

HSCA 4201 HEALTH CARE MARKETING**3-0-3**

Survey of the essential aspects of marketing as they apply various sectors of the health services industry.

HSCA 4600 PRINCIPLES OF HUMAN RESOURCES MANAGEMENT**3-0-3**

Survey of the most common methods and application involving the management of human (non-capital) resources within health-related organizations. Topics include employee recruitment, selection, training, evaluation, and retention, with an emphasis on the most common practices associated with each.

HSCA 4610 HEALTH CARE ECONOMICS**3-0-3**

Microeconomic approach to the market for health services and macroeconomic applications to health policy formulation and evaluation.

HSCA 4620 PRINCIPLES OF MANAGEMENT IN HEALTH SERVICES ORGANIZATIONS**3-0-3**

An introduction to organizational theory and behavior with specific applications to managers in health services organizations and systems.

HSCA 4630 HEALTH INFORMATION SYSTEMS**3-0-3**

Role and development of information systems in health programs. Emphasis on information based planning models, sources of health related data, and utilization of data for decision making.

HSCA 4640 MANAGED CARE CONCEPTS**3-0-3**

Overview of managed health care plans and systems. Emphasis on provider and payor sponsored systems, methods of financing and reimbursement, and common operational issues.

HSCA 4650 LONG TERM CARE MANAGEMENT**3-0-3**

Prerequisite: HSCC 3120 and HSCA 4610 and HSCA 4620

Issues particular to care of residents and management in a long term care setting. Synthesis of topics studied elsewhere including accreditation standards, human resource issues.

HSCA 4660 – SURVEY OF HEALTH OUTCOMES**3-0-3**

An overview of quality assurance methods and tools and how they apply in various health care settings, including current efforts to reduce medical errors and promote patient safety.

HSCA 4901, -2 HEALTH SCIENCE PRACTICUM IN LONG TERM CARE I AND II**V-V-3**

Prerequisite: permission of instructor or department

Two semesters (6 hours) of on-site experience under tutelage of licensed nursing home administrator. Development of philosophy integrating clinical and administrative aspects of long term care.

HSCC – Health Science Core**HSCC 2200 – HEALTH COMMUNICATION****3-0-3**

Prerequisite: ENGL 1102

Introduces students to fundamental communication principles, focusing on developing the skills required to effectively present and convey professional and health-related information to diverse audiences. The course focuses on oral skills, written skills, organizational skills, and communication skills involving new technology and media.

HSCC 2300 – MANAGEMENT OF HEALTH INFORMATION**3-0-3**

Prerequisite: ENGL 1102

A survey of commonly used computer applications in the health sciences, focusing on the effective use and communication of health care data and information.

HSCC 2500 HEALTH ISSUES AND RESOURCES**3-0-3**

Formulation and facilitation of practical modes of collaboration and cooperation among health agencies, levels of program personnel, and provider organizations.

HSCC 3100 – RESEARCH METHODS**3-0-3**

Prerequisites: ENGL 1102 and MATH 2200

Conceptual frameworks, data sources, design, interpretation, and evaluation of research methods and current topics in health sciences research.

HSCC 3110 – HEALTH LAW**3-0-3**

Examines the law and legal processes as they relate to health care professionals and organizations. Includes an overview of the American legal system and a wide range of legal issues that apply to the health professions.

HSCC 3130 – HEALTH POLICY ISSUES**3-0-3**

Overview of health policy-making process of health care. Issues pertinent to policy deliberation, formation, implementation, evaluation and statutory and administrative law.

HSCC 3140 EPIDEMIOLOGY**3-0-3**

Distribution and determinants of health and disease in defined populations with applications to clinical, environmental, and infectious disease settings.

HSCC 3760 ENVIRONMENTAL AND COMMUNITY HEALTH ISSUES**3-0-3**

Historical, contemporary, and prospective environmental factors that impact public health status.

HSCC 4015 HEALTH PLANNING**3-0-3**

Prerequisite or Corequisites: None

The study of community health promotion program planning, implementation and evaluation.

HSCC 4020 SEMINAR IN PROFESSIONAL ISSUES**3-0-3**

Prerequisite or Corequisites: None

Exposes students to expected standards of professional behavior by providing strategies for oral and written communication including research, resumes, job search, interviewing skills, grant writing, ethics, credentialing, setting agenda, and chairing meetings.

HSCC 4950 PRACTICUM**V-V-1-6**

Prerequisite: Permission of department or instructor

On-site experience in the student's area of interest.

HSCP – Health Science Public Health**HSCP 2000 ETHICAL THEORIES/MORAL ISSUES IN HEALTH****3-0-3**

Theories and issues in the ethics of public health, health care, and health promotion. Contemporary issues, such as health bioethics, DNA manipulation, contraception, and end-of-life decisions.

HSCP 3710 WORKSITE WELLNESS AND SAFETY 3-0-3

Introduction to the multiple skills needed to design, implement and evaluate health promotion and wellness programs in various settings.

HSCP 3730 HEALTH PROMOTION THEORY 3-0-3

Individual and environmental forces generating opposing viewpoints regarding public health needs and concerns.

HSCP 3740 HEALTH PROMOTION METHODS 3-0-3

Selection of methods and media best suited for successful implementation of program plans for specific populations.

HSCP 3750 TOPICS IN PUBLIC HEALTH 3-0-3

Major public health topics and their effects on modern society.

HSCP 4000 INDEPENDENT STUDY IN HEALTH SCIENCE V-V-(1-3)

Prerequisite: permission of instructor or department
Independent study in an area of interest in health.

HSCP 4030 HEALTH/FITNESS MANAGEMENT 3-0-3

Prerequisite or corequisite: Senior status in the BHS Health and Fitness Management track
Art and science of managing health, wellness, and fitness centers.

HUMN–Humanities**HUMN 2960 FOREIGN LANGUAGE AND CULTURE V-V-(1-15)**

Prerequisite: permission of the dean of the College of Arts and Sciences
Offered as part of a study abroad or global studies program. Instruction in language and/or culture of a foreign country or people. Crosslisted as SSCI 2960.

ISCI-Interdisciplinary Science**ISCI 2001 LIFE/EARTH SCIENCE FOR EARLY CHILDHOOD EDUCATORS 2-2-3**

Prerequisite: One Core Area D Lab Science course.
Interdisciplinary science course for Early Childhood Education majors. Inquiry-based course covers basic concepts in life science and earth science. Content based on Georgia Performance Standards for K-5. Will not count as an Area D course.

ISCI 2002 PHYSICAL AND SPACE SCIENCE FOR EARLY CHILDHOOD EDUCATORS 2-2-3

Prerequisite: One Core Area D Lab Science course.
Conceptual and laboratory investigation of the fundamental concepts of physical science (matter, energy, force, fields) and space science designed for pre-service elementary grade teachers. Will not count as an Area D course.

ITEC–Information Technology**ITEC 1050 INTRODUCTION TO COMPUTER CONCEPTS AND APPLICATIONS 3-0-3**

Prerequisite: MATH 1001 or MATH 1111
Study of hardware and software components of computers, and the impact of computers on society. Discussion of the capabilities and the limitations of computers, and the kinds of problems that are best solved by computers. Experience with using personal computer productivity tools to solve problems. Emphasis on the major uses of computers. Not designed for the computer science major.

ITEC 1300 FUNDAMENTALS OF INFORMATION TECHNOLOGY**3-0-3**

Prerequisite: MATH 1111

Focus on the components of fluency in information technology: intellectual capabilities involving problem solving, reasoning, complexity management, and troubleshooting; concepts involving computers, information systems, networks, digital representation of information, and algorithmic thinking; skills involving proficiency in using a contemporary computer operating system and applications.

ITEC 1310 PROGRAMMING IN VISUAL BASIC**3-0-3**

Prerequisite: MATH 1111

Introduction to the Visual Basic programming language and the concepts and techniques of microcomputer windows and GUI programming. Syntax of Visual Basic, forms, properties, controls, variables, decision structures, functions, and subroutines. Development of modular programs for event-driven applications.

ITEC 2530 OPERATING SYSTEMS**3-0-3**

Prerequisite: ITEC 1300

Examples of specific operating systems. Management of memory, processors, processes, devices, files, and systems.

ITEC 2990 SPECIAL TOPICS IN INFORMATION TECHNOLOGY**V-V- (1-4)**

Prerequisite: Announced with the topic.

Special topics at freshman and sophomore level of current interest in information technology.

ITEC 3500 DATABASE ADMINISTRATION**3-0-3**

Prerequisite: ITEC 1310

Practical aspects of database systems. Fundamental concepts of database systems: database architecture, data independence, relational data model, SQL, database security, and database recovery. Survey of database systems: relational and object-oriented systems. Database administration and management using popular systems.

ITEC 3600 SYSTEMS ANALYSIS AND DESIGN**3-0-3**

Prerequisite or C0-requisite: ITEC 3500

Emphasis on development of business application systems; includes methods for investigating systems, project planning and control, system integration, and techniques for describing process flows, data flows, data structures, system objects, file designs, input and output designs, and program specifications.

ITEC 3710 E-COMMERCE**3-0-3**

Prerequisite: CSCI 1150 and ITEC 1310

Principles and practices of E-commerce. Electronic payment systems. Banking issues related to E-commerce. Security issues including risk management. Legal issues.

ITEC 3800 DATA COMMUNICATIONS AND NETWORKS**3-0-3**

Prerequisite: ITEC 2530

Fundamentals of practical aspects of computer networks and data communications; standards, protocols, topologies, architectures, routing devices, wireless technologies, and monitoring and management.

ITEC 3961 INTERNSHIP IN INFORMATION TECHNOLOGY**V-V-(1-4)**

Prerequisite: Permission of instructor or program coordinator

Practical study experiences in a variety of environments utilizing information technology. Supervised by faculty and appropriate off-campus personnel. Faculty coordinator will establish criteria for performance and evaluation in the semester before the internship begins. Students may use a maximum of 6 hours internship credit to fulfill degree elective requirements.

ITEC 3972 INTERNSHIP IN INFORMATION TECHNOLOGY**V-V-(1-4)**

Prerequisite: Permission of instructor or program coordinator

Practical study experiences in a variety of environments utilizing information technology. Supervised by faculty and appropriate off-campus personnel. Faculty coordinator will establish criteria for performance and evaluation in the semester before the internship begins. Students may use a maximum of 6 hours internship credit to fulfill degree elective requirements.

ITEC 4390 SENIOR PROJECT**V-V-(1-6)**

Prerequisite: permission of instructor or department

Development, study, or research of a topic in Information Technology under the supervision of a member of the IT faculty. A formal written report is required and any system developed must be well-documented. Both the credit and proposed work must be approved in writing by the faculty member who will supervise the work. Repeatable to a total credit of 6 hours.

ITEC 4770 CLIENT/SERVER SYSTEMS**3-0-3**

Prerequisite: ITEC 3500

Architectures and concepts of n-tier client/server models. Client/server interfaces and communications protocols: Open Database Connectivity (ODEC) and Java Database Connectivity (JDBC). Design and development of web-based applications involving front clients, middle-tier application servers, and backend databases.

ITEC 4800 NETWORK DESIGN AND ADMINISTRATION**3-0-3**

Prerequisite: ITEC 3800

Advanced topics on network and data administration. Topics include installation, configuration, access control, network security, web servers, and firewalls.

ITEC 4830 GRAPHICS DESIGN**3-0-3**

Prerequisite: ITEC 3600

Creation of two and three-dimensional computer graphics and animations using both professional programming libraries and standard CGI tools. Survey of hardware and software used in the computer graphics industry, classic algorithms and data structures for raster graphics, representation and processing of three dimensional objects, and an introduction to procedural animation and image processing for special effects.

ITEC 4990 SPECIAL TOPICS IN INFORMATION TECHNOLOGY**V-V- (1-4)**

Prerequisite: Announced with topic

Special topics at junior and senior level of current interest in information technology.

ITEC 4999 INDEPENDENT STUDY**V-V- (1-3)**

Prerequisite: Permission of the instructor

ITEC 5001U CYBER SECURITY I**3-0-3**

Prerequisite: CSCI 2070

Current standards and best practice in information assurance and security. Topics include evaluation of security models, risk assessment, threat analysis, security implementation, disaster recovery planning, and security policy formulation and implementation.

ITEC 5002U CYBER SECURITY II**3-0-3**

Prerequisite: CRJU/ITEC 5001U

Concepts of countermeasures and safeguards such as remote access controls, firewalls, intrusion detection systems, virtual private networks, data encryption.

JOUR—Journalism**JOUR 3270 JOURNALISM LAB****0-3-1**

Prerequisite: ENGL 1102

Practical experience in journalism through work on approved campus publications. Only one hour of credit may be earned per term. Repeatable up to 3 hours.

JOUR 3430 JOURNALISTIC WRITING AND EDITING**3-0-3**

Prerequisite: ENGL 2100

Techniques of modern journalism; emphasis on writing and editing for newspapers and magazines.

JOUR 3470 BASIC TV PRODUCTION**3-3-3**

Study of the theory and practice of television production styles, forms and concepts. Special emphasis on the critical appreciation of electronic communication techniques.

JOUR 3500 INTRODUCTION TO FILM**3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Emphasis on the critical appreciation of film as an art form. Crosslisted as FILM 3500 and THEA 3500.

JOUR 4000 TOPICS IN JOURNALISM**3-0-3**

A seminar on the impact of the media on the world today. Emphasis on rights and responsibilities of journalists, censorship, media control, propaganda and other current issues.

LATN–Latin**LATN 1001 ELEMENTARY LATIN I****3-0-3**

Prerequisite: eligibility for ENGL 1101

Essentials of grammar and readings from selected Latin authors.

LATN 1002 ELEMENTARY LATIN II**3-0-3**

Prerequisite: eligibility for ENGL 1101 and LATN 1001

Essentials of grammar and readings from selected Latin authors.

LATN 2001 INTERMEDIATE LATIN I**3-0-3**

Prerequisite: eligibility for ENGL 1101 and LATN 1002

Further readings in Latin literature with special emphasis on Vergil and Ovid.

LATN 2002 INTERMEDIATE LATIN II**3-0-3**

Prerequisite: eligibility for ENGL 1101 and LATN 2001

Further readings in Latin literature with special emphasis on Vergil and Ovid.

LATN 3000 READINGS IN LATIN**3-0-3**

Prerequisite: LATN 2002

Readings from the 2000 years of Latinity from Plautus to the recent encyclicals.

LATN 3010 READINGS IN LATIN II**3-0-3**

Readings in Latin poetry. May include Horace, Catullus, Ovid, Propertius, and Tibullus.

LATN 3020 OVID**3-0-3**

Prerequisite: LATN 2001

Readings from the *Metamorphoses* with emphasis on familiar mythology and other selected works.**LATN 3351, -2, -3 STUDY ABROAD IN ROME AND ATHENS****9-0-9**

Prerequisite: LATN 1002

An 8-9 week summer semester's residence and study in Rome and Athens in conjunction with the studies abroad program of the University System of Georgia. Through visits to monuments, museums, and classical ruins, and on excursions to Crete, Delphi, Ostia, Tivoli, Tarquinia, and Frascati, the student experiences first hand the reality of life in the ancient world. Crosslisted as CLAS 3351, -2, -3.

LATN 3960 LATIN LANGUAGE AND CULTURE IN ROME**9-0-9**

Prerequisite: LATN 2001

Composition outside of class and travel to cultural sites.

LATN 4010 VERGIL**3-0-3**

Prerequisite: LATN 2001

Readings from the Aeneid with emphasis on Books II, IV, VI, and VIII, and other selected works.

LEAD–Leadership Studies**LEAD 1001 INTRODUCTION TO LEADERSHIP STUDIES****2-0-2**

Prerequisite: Eligibility for ENGL 1101

A concept-based approach to the interdisciplinary field of leadership studies.

LING—Linguistics**LING 4700 ADVANCED COMPOSITION****3-0-3**

Prerequisite: ENGL 2100 or permission of department head

An understanding of the complex interaction of form and content when writing prose. Developing an individual voice along with cultural context, audience awareness, and meaning. Crosslisted as ENGL 4700.

LING 5000U TOPICS IN LINGUISTICS**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

Seminar in topics of theoretical and applied linguistics. May be repeated for additional credit when topics change.

LING 5440U EARLY ENGLISH LITERATURE**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

English literature from its beginnings through 1485. Includes study of medieval phonology, morphology, and syntax. Writers include the Beowulf poet and other old English authors, early Middle English lyrics and the major figures of the fourteenth century (the Pearl poet, Malory, Langland, Gower). Crosslisted as ENGL 5440U.

LING 5465U CHAUCER**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

Chaucer's two masterpieces, *The Canterbury Tales* and *Troilus and Criseyde*, and minor poetry. Includes in-depth study of Chaucer's culture, context, and language. Crosslisted as ENGL 5465U.

LING 5800U ADVANCED GRAMMAR**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

Current approaches to grammar, including generative, transformational. Phonology, morphology, syntax. Crosslisted as ENGL 5800U.

LING 5820U HISTORY OF ENGLISH LANGUAGE**3-0-3**

Prerequisite: ENGL 2100 or permission of department head

English language from its beginnings in the fifth and sixth centuries to its worldwide expansion in the twentieth. Chronological consideration of language from Old to Middle to Modern English. Phonetic, syntactic, and lexical changes emphasizing both external and internal influences. Crosslisted as ENGL 5820U.

LMUG—LibraryMedia**LMUG 3000 INTRODUCTION TO MEDIA PROFESSION****2-2-2**

Examination of the role, functions and services of different types of libraries and information centers including directed field experiences.

LMUG 3100 REFERENCE SOURCES**3-2-3**

Basic reference sources, electronic sources, searching strategies, and directed field experiences.

LMUG 3200 CATALOGUING AND CLASSIFICATION**3-2-3**

Basic principles of cataloguing and classification of multi-media materials combined with practical experience.

LMUG 4100 MEDIA SELECTION**3-1-3**

Selection, evaluation and utilization of various types of media, based on fundamental principles and objectives. Includes field experiences.

LMUG 4200 ADMINISTRATION OF INFORMATION CENTERS**3-2-3**

Prerequisite: LMUG 3000 and LMUG 3100 and LMUG 3200 and LMUG 4100

Study of organization and administration of all types of information centers. Includes field experiences. Concurrent enrollment in LMUG 4250 recommended.

LMUG 4250 MEDIA INTERNSHIP**1-6-4**

Prerequisite: LMUG 3000 and LMUG 3100 and LMUG 3200 and LMUG 4100

Corequisite: LMUG 4200

Supervised experiences in library/media center, or other appropriate setting.

LSLI–Library Science**LSLI 1100 INTRODUCTION TO LIBRARY RESEARCH AND MATERIALS****1-1-1**

An orientation to the library. Students will learn to access information in a variety of formats.

LSLI 3110 LIBRARY RESEARCH AND ELECTRONIC RESOURCES**2-2-2**

Introduction to searching appropriate printed and electronic databases. Internet resources are included. Directed to the student's subject interest.

LSLI 3120 INFORMATION RESOURCES IN HUMANITIES**1-1-1**

Basic and advanced reference materials and search techniques in the humanities.

LSLI 3130 INFORMATION RESOURCES IN SOCIAL SCIENCES**1-1-1**

Basic and advanced reference materials and search techniques in the social sciences.

LSLI 3140 INFORMATION RESOURCES IN SCIENCES**1-1-1**

Basic and advanced reference materials and search techniques in the sciences.

LWSO–Law and Society**LWSO 2000 INTRODUCTION TO LAW AND SOCIETY****3-0-3**

Prerequisites: Any two of the following courses – ANTH 1102, CRJU 1100, SOCI 1101, GWST 1101, PHIL 2201, PHIL 2251, POLS 2100, POLS 1150

Exposure to and readings in social and governmental issues focused on their interaction with the American legal system.

LWSO 4190 ENVIRONMENTAL LAWS AND REGULATIONS**3-0-3**

Prerequisites: POLS 2100 or POLS 2200 or LWSO 2000

An introduction to hazardous waste regulations, solid waste management programs, the Clean Air Act, OSHA regulations, the Clean Water Act, environmental audits, remediation technology, and issues relating to the impact of environmental laws on society.

MAED–Mathematics Education**MAED 5500U TEACHING MATHEMATICS WITH TECHNOLOGY****3-0-3**

Prerequisite: MATH 1113

Use of graphing calculators and special computer software to teach algebra, geometry, advanced algebra, and precalculus.

MAED 5900U SPECIAL TOPICS IN MATHEMATICS EDUCATION**3-0-3**

The study of topics relevant to the secondary mathematics classroom.

MAED 5940U TEACHING OF MIDDLE SCHOOL/GENERAL MATHEMATICS**2-3-3**

Prerequisite: MATH 1113

The teaching of traditional topics, such as fractions, decimals, percentage, measurement, informal geometry, algebraic structures, probability, and statistics. Cooperative learning in an activity-based problem solving environment; incorporation of drill and practice in necessary skills with appropriate games and exercises.

MATH–Mathematics**MATH 0090 MATH STUDY SKILLS****1-0-1**

Strategies for learning mathematics, improving math study skills, and reducing math anxiety. Designed for students who have difficulty in basic mathematics and algebra.

MATH 0097 INTRODUCTORY ALEGBRA**3-0-3**

Prerequisite: placement according to COMPASS score

Real numbers, variable expressions, solving equations and inequalities, applications, graphing straight lines, polynomials, factoring, and radical expressions.

MATH 0099 INTERMEDIATE ALGEBRA**3-0-3**

Prerequisite: placement according to COMPASS score

Rational expressions, factoring, linear equations and inequalities, quadratic equations, word problems, graphs of linear functions, rational exponents, and radicals.

MATH 1001 QUANTITATIVE SKILLS AND REASONING**3-0-3**

Prerequisite: regular admission to the university or a passing grade on COMPASS.

Emphasis on processing information via models by conducting assumption validity, applicability and suitability checks, executing appropriate calculations to do forecasts and arrive at logical decisions. Will rely on examples to illustrate use of mathematics in real world situations. This course is an alternative in Area A of the Core Curriculum and is not intended to supply sufficient algebraic background for students who intend to take precalculus or the calculus sequences for mathematics and science majors. MATH 1001 serves as a prerequisite only for MATH 2200.

MATH 1111 COLLEGE ALGEBRA**3-0-3**

Prerequisite: regular admission to the university or a passing grade on COMPASS

Placement recommendations: Some students who satisfy the prerequisites for MATH 1111 nonetheless need to reinforce their mathematical skills in a learning support mathematics course before taking MATH 1111. In particular, if any of the following is true, students should consider enrolling in MATH 0099: (a) the student did not complete two years of algebra and one year of geometry in high school; (b) the student has not completed a mathematics course in the past five years; (c) the student made below 430 on the mathematics portion of the SAT.

Functional approach to algebra that incorporates the use of appropriate technology. Emphasis will be placed on the study of functions and their graphs, inequalities, and linear, quadratic, rational, polynomial, exponential, and logarithmic functions. Appropriate applications will be included.

MATH 1113 PRE-CALCULUS MATHEMATICS**3-0-3**

Prerequisite: MATH 1111 or a grade of at least 550 on the mathematics portion of the SAT

Designed to prepare students for calculus, physics, and related technical subjects. Topics include an intensive study of algebraic, trigonometric, logarithmic and exponential functions accompanied by analytic geometry.

MATH 1161 CALCULUS I**4-0-4**

Prerequisite: MATH 1113 or a grade of at least 600 on the mathematics portion of the SAT

Functions and limits; the derivative and its applications, antidifferentiation; the definite integral and applications; exponential and logarithmic functions.

MATH 1161H HONORS CALCULUS I**4-0-4**

Prerequisite: MATH 1113 or 600 or higher on the mathematics portion of the SAT. Admission to the Honors Program or a minimum grade of B in MATH 1113, or permission of the department head. Course content similar to MATH 1161, but a more rigorous treatment of differential and integral calculus. Course will include oral or written student presentations of theoretical or applied projects.

MATH 1950 APPLIED MATH FOR NON-SCIENCE MAJORS**3-0-3**

Prerequisite: MATH 1111

Mathematical applications in economics and the social sciences. Linear functions and models; matrix operations and applications; inequalities and linear programming; exponential functions and log functions; single and multivariate differentiation.

MATH 2008 FOUNDATIONS OF NUMBERS AND OPERATIONS**3-0-3**

Prerequisite: MATH 1001, MATH 1101, MATH 1111, or MATH 1113

An introductory mathematics course with emphasis on the understanding and use of the major concepts of numbers and operations with strategies of problem solving. Restricted to early childhood education majors in Area F. Will not count in Area D.

MATH 2072 CALCULUS II**4-0-4**

Prerequisite: MATH 1161

Techniques and applications of integration; transcendental functions; indeterminate forms; improper integrals; parametric equations and polar coordinates; sequences and series; Taylor's theorem.

MATH 2083 CALCULUS III**4-0-4**

Prerequisite: MATH 2072

Vectors, curves, and surfaces; partial differentiation; multiple integrals; curve integrals and surface integrals; the theorems of Green and Stokes; the Divergence Theorem; introduction to differential equations.

MATH 2160 LINEAR ALGEBRA**3-0-3**

Prerequisite: MATH 2072

Linear systems and matrices; vector spaces, linear independence, rank of a matrix; linear transformations; determinants; introduction to eigenvalues and eigenvectors; diagonalization; applications.

MATH 2200 ELEMENTARY STATISTICS**3-0-3**

Prerequisite: MATH 1001 or MATH 1101 or MATH 1111

Measures of central tendency and dispersion; probability distributions; inferences concerning means and proportions; goodness of fit; correlation; linear regression.

MATH 3000 INTRODUCTION TO MATHEMATICAL PROOF**3-0-3**

Prerequisite: MATH 2072

Elementary logic, set theory, functions and relations, methods of proof including induction, and selected topics from major areas of mathematics.

MATH 3110 ABSTRACT ALGEBRA**3-0-3**

Prerequisite: MATH 2083 and MATH 3000

Elementary properties of integers, groups, rings, and fields; mappings, homomorphisms, kernels, quotient structures.

MATH 3170 ADVANCED LINEAR ALGEBRA**3-0-3**

Prerequisite: MATH 2160 and MATH 3000

Abstract vector spaces, linear transformations, eigenvectors and eigenvalues, diagonalization, inner product spaces, real quadratic forms.

MATH 3201 COMPUTATIONAL METHODS IN STATISTICS**3-0-3**

Prerequisite: MATH 2200 and either ITEC 1050 or CSCI 1060

Data analyses including topics from elementary statistics as well as ANOVA, multiple regression and nonparametric statistics using statistical software packages such as Minitab, SAS, or SPSS.

MATH 3251 COMBINATORICS**3-0-3**

Prerequisite: MATH 3000

Counting principles such as permutations, combinations, derangements, pigeonhole, and inclusion/exclusion; partitions; generating functions; recurrence relations; applications from graph theory and applied algebra.

MATH 3360 MODERN GEOMETRY**3-0-3**

Prerequisite: MATH 3000

An axiomatic approach to the fundamental ideas of Euclidean geometry, including congruence, similarities, circles, elementary transformations and constructions. Examination of non-Euclidean geometries.

MATH 3411 DIFFERENTIAL EQUATIONS**3-0-3**

Prerequisite: MATH 2072

First order linear and nonlinear equations; second and higher order linear equations; applications; the Laplace transform; numerical solution with emphasis on computer-aided solution.

MATH 3422 DIFFERENTIAL EQUATIONS II**3-0-3**

Prerequisite: MATH 3411

Series solutions; linear and nonlinear first order systems; applications; numerical methods; boundary value problems; introduction to Fourier series and partial differential equations.

MATH 3460 INTRODUCTION TO OPERATIONS RESEARCH**3-0-3**

Prerequisite: MATH 2160 and either STAT 3211 or STAT 3231 or permission of instructor

Linear programming topics including simplex algorithm, sensitivity analysis, duality, modeling; Additional topics from project management, decision analysis, queueing theory, simulation, dynamic programming, game theory.

MATH 3480 OPTIMIZATION AND GRAPH THEORY**3-0-3**

Prerequisite: MATH 2160

Network analysis topics including shortest path, maximum flow, min-cut/max-flow theorem, minimum cost networks, minimum spanning trees, matching and coloring problems; Additional topics from operations research including nonlinear, integer programming.

MATH 3750 INTERNSHIP I - PRE-STUDENT TEACHING**0-V-3**

Prerequisite: Admission into the College of Education

Directed practice in the teaching of students in a Secondary setting.

MATH 3900 SPECIAL TOPICS IN APPLIED MATHEMATICS**V-V-(1-3)**

Prerequisite: announced with the course

Special topics of current interest in upper-level applied mathematics.

MATH 3911 ALGORITHMS AND NUMBER SYSTEMS: A LABORATORY APPROACH**2-3-3**

Prerequisite: a passing grade on GACE I and either MATH 1113 or MATH 2008

A laboratory approach to the study of mathematics. Topics include problem solving; sets; functions; numeration systems; and the integer, rational, and real number systems.

MATH 3912 GEOMETRY AND DATA ANALYSIS: A LABORATORY APPROACH**2-3-3**

Prerequisite: MATH 3911 and admission to teacher education

A laboratory approach to the study of mathematics. Topics include geometry, measurement, probability, statistics, and motion geometry.

MATH 3932 MATHEMATICAL REASONING AND REPRESENTATION**3-0-3**

Prerequisite: Either MATH 1113 and MATH 3912, or MATH 1161

A laboratory approach to the study of mathematics. Topics include methods of reasoning and proof; algebraic structures; conceptual consideration of functions; regression; recursion; proportional reasoning; analytic and transformational geometry; and rational, integer and real number arithmetic.

MATH 4000 PUTNAM SEMINAR**0-2-1**

Prerequisite: MATH 2083

A variety of mathematical problems, considered with the aim of developing problem-solving techniques.

MATH 4011 ADVANCED CALCULUS I**3-0-3**

Prerequisite: MATH 2083 and MATH 3000

The real number system; sequences and series; limits of functions, the Bolzano-Weierstrass theorem; uniform continuity; the derivative.

MATH 4022 ADVANCED CALCULUS II**3-0-3**

Prerequisite: MATH 4011

The Riemann integral; metric spaces; compactness; sequences of functions; uniform convergence.

MATH 4060 FUNCTIONS OF COMPLEX VARIABLES**3-0-3**

Prerequisite: MATH 2083

Complex numbers; elementary functions and transformations; differentiation; analytic functions; integration theory; series; residue theory; conformal mapping and applications.

MATH 4200 ACTUARIAL SCIENCE SEMINAR (1-3)-0-(1-3)

Prerequisite: STAT 3222 or STAT 3232

Study of topics related to a career in actuarial science.

MATH 4360 TOPOLOGY 3-0-3

Prerequisite: MATH 2083 and MATH 3000

Topological spaces and homeomorphisms, separability, compactness, connectedness; completeness; metrizable; introduction to homotopy theory.

MATH 4400 OPERATIONS RESEARCH SEMINAR (1-3)-0-(1-3)

Prerequisite: MATH 3460

Study of topics related to a career in operations research.

MATH 4610 NUMERICAL ANALYSIS 3-0-3

Prerequisite: MATH 2072 and CSCI 1301

An introductory course in numerical analysis and computation. Topics include computer arithmetic and numerical error, systems of linear equations, iterative methods for nonlinear equations, polynomial interpolation, least squares approximation, and numerical integration. Crosslisted as CSCI 5610U.

MATH 4750 INTERNSHIP II - STUDENT TEACHING 0-V-12

Prerequisite: Admission into the College of Education; completion of all coursework

Supervised field-based teaching experiences providing the opportunity to use knowledge and skills in the 6-12 public school setting. A capstone course.

MATH 4900 SPECIAL TOPICS V-V-(1-3)

Prerequisite: announced with the topic

Special topics of current interest in upper-level mathematics.

MATH 4910 HONORS PROJECT IN MATHEMATICS (1-3)-0-(1-3)

Prerequisite: permission of instructor

Open only to seniors. Independent reading or research in the mathematical sciences, including a presentation to an appropriate audience.

MATH 4961, -2, -3 INTERNSHIP IN MATHEMATICS 0-6-3

Prerequisite: permission of instructor or department

Experience in a variety of mathematical applications suited to the educational and professional aspirations of the student, under the direction of faculty and appropriate off-campus supervisory personnel. Open to transient students only with the permission of the department head.

MATH 5160U THEORY OF NUMBERS 3-0-3

Prerequisite: MATH 3000

A survey of topics from number theory to include divisibility and congruence, diophantine equations, distribution of prime numbers, famous unsolved problems, number-theoretic functions and their applications, theorems of Fermat and Euler.

MATH 5412U SECONDARY SCHOOL CURRICULUM AND METHODS 3-0-3

Prerequisite: Admission to the College of Education and completion of MATH 3932

Materials and methods of teaching secondary school mathematics including field experience.

MATH 5600U FOUNDATIONS OF MATHEMATICS 3-0-3

Prerequisite: MATH 2072

Fundamental ideas of axiomatic mathematics, including sets, relations, functions, algebraic structures, with emphasis on techniques of writing proofs.

MATH 5700U HISTORY OF MATHEMATICS 3-0-3

Prerequisite: MATH 3000

The historical development of mathematics from its empirical beginnings to its present state.

MATH 5900U TOPICS IN MATHEMATICS V-V-(1-3)

Prerequisite: permission of instructor or department

Special topics of current interest in upper-level mathematics.

MATH 5911U TOPICS IN MATHEMATICS FOR EDUCATORS**3-0-3**

Prerequisite: MATH 3911

Topics in mathematics designed for preservice and inservice elementary and middle grades teachers.

MEDT—Medical Technology**MEDT 3100 URINALYSIS AND BODY FLUIDS****2-2-2**

Open only to medical technology majors. Qualitative and quantitative study of the physical and microscopic constituents of urine and other body fluids. Includes practice of manual and automated procedures and their relationship to diagnosing disease.

MEDT 3110 URINALYSIS AND BODY FLUIDS**2-0-2**

Prerequisite: admission to MT program

Qualitative and quantitative study of the physical and microscopic constituents of urine and other body fluids.

MEDT 3200 CLINICAL BACTERIOLOGY**4-4-5**

Open only to medical technology majors. The relationship of bacteria, mycobacteria, spirochaetes, and mycoplasmas to human disease with an emphasis on the isolation and identification of pathogenic bacteria.

MEDT 3210 CLINICAL BACTERIOLOGY**4-0-4**

Prerequisite: admission to MT program

The relationship of bacteria, mycobacteria, spirochaetes, and mycoplasmas to human disease. Emphasis on the isolation and identification of bacteria responsible for human disease.

MEDT 3300 CLINICAL HEMATOLOGY AND HEMOSTASIS**4-4-5**

Only open to medical technology majors. Study of pathology and physiology of the formed elements of blood with an emphasis on clinical correlation. Study of the principles of hemostasis and blood coagulation including interpretation of results. Manual and automated laboratory procedures are performed based on principles of hematology and hemostasis.

MEDT 3310 CLINICAL HEMATOLOGY AND HEMOSTASIS**4-0-4**

Prerequisite: admission to MT program

Study of pathology and physiology of the formed elements of blood with an emphasis on clinical correlation. Study of the principles of hemostasis and blood coagulation including interpretation of results.

MEDT 3400 CLINICAL IMMUNOHEMATOLOGY**4-3-5**

Open only to medical technology majors. Basic immunohematologic principles and their application to the preparation and administration of whole blood and blood components including the selection and processing of donors, cross matching procedures, and antibody identification.

MEDT 3410 CLINICAL IMMUNOHEMATOLOGY**4-0-4**

Prerequisite: admission to MT program

Basic immunohematologic principles and their application to the preparation and administration of whole blood and blood components. Includes the selection and processing of donors, cross matching procedures, and antibody identification.

MEDT 3500 CLINICAL CHEMISTRY**4-3-5**

Open only to medical technology majors. Focus on physiological principles and concepts, methodologies and clinical significance of biochemicals and elements found in blood and other body fluids. Manual and automated laboratory procedures are performed with an emphasis on quality control and quality assurance. Clinical chemistry case studies are presented to aid in clinical correlation and problem solving.

MEDT 3510 CLINICAL CHEMISTRY**4-0-4**

Prerequisite: admission to MT program

Focus on physiological principles and concepts, methodologies and clinical significance of biochemical and elements found in body fluids and other body fluids. Clinical chemistry case studies are presented to aid in clinical correlation and problem solving.

MEDT 3600 CLINICAL LABORATORY METHODOLOGIES 3-2-3

Open only to medical technology majors. A basic introduction to the clinical laboratory focusing on topics in laboratory safety, microscopy, phlebotomy, general laboratory equipment, quality assurance, laboratory mathematics, and principles and methodologies of clinical laboratory instrumentation.

MEDT 3610 CLINICAL LABORATORY METHODOLOGIES 3-0-2

Prerequisite: admission to MT program

Principles and operation of medical laboratory instrumentation.

MEDT 3700 CLINICAL IMMUNOLOGY AND MOLECULAR DIAGNOSTICS 2-2-3

Open only to medical technology majors. Principles and procedures used in the isolation, identification, and quantifications of diagnostically significant antigens and antibodies. This course will also familiarize students with the basics of molecular diagnostics technology and the types of tests available.

MEDT 3710 CLINICAL IMMUNOLOGY AND MOLECULAR DIAGNOSTICS 2-0-2

Prerequisite: admission to MT program

Principles and procedures used in the isolation, identification, and quantifications of diagnostically significant antigens and antibodies. This course will also familiarize students with the basics of molecular diagnostics technology and the types of tests available.

MEDT 3800 CLINICAL MICROBIOLOGY 2-2-3

Open only to medical technology majors. Pathogenesis and laboratory identification of human parasites and clinically significant fungi and viruses.

MEDT 3810 CLINICAL MICROBIOLOGY 2-2-3

Prerequisite: Admission to MT program

Only open to medical technology majors. Pathogenesis and laboratory identification of human parasites and clinically significant fungi and viruses.

MEDT 4000 DIRECTED STUDY 3-3-1

Prerequisite: permission of instructor or department

Selected medical technology topics. Credit varies by topic. Offered on demand.

MEDT 4110 PHLEBOTOMY PRACTICUM 0-V-1

Prerequisite: permission of instructor or department

Open only to medical technology majors. Structured clinical laboratory experience in phlebotomy.

MEDT 4210 CLINICAL MICROBIOLOGY PRACTICUM 0-V-3

Prerequisite or corequisite: MEDT 3200 and MEDT 3800 or MEDT 3210 and MEDT 3810

Structured clinical laboratory experiences in microbiology, parasitology, and mycology.

MEDT 4310 CLINICAL HEMATOLOGY PRACTICUM 0-V-3

Prerequisite or corequisite: MEDT 3300 or MEDT 3310

Structured clinical laboratory experience in hematology and hemostasis.

MEDT 4410 CLINICAL IMMUNOHEMATOLOGY PRACTICUM 0-V-3

Prerequisite or corequisite: MEDT 3400 or MEDT 3410

Structured clinical laboratory experience in transfusion medicine.

MEDT 4510 CLINICAL CHEMISTRY PRACTICUM 0-V-3

Prerequisite or Co-requisite: MEDT 3500 or MEDT 3510

Structured clinical laboratory experience in automated and special chemistry.

MEDT 4600 CLINICAL PATHWAYS & CRITICAL DECISION MAKING 5-0-5

Prerequisites or corequisites: MEDT 4110, 4210, 4310, 4410, 4510, 4610, 4710

Advanced topics in clinical laboratory science, emphasizing analysis and presentation of multi-disciplinary case studies.

MEDT 4610 CLINICAL URINALYSIS PRACTICUM 0-V-1

Prerequisite or corequisite: MEDT 3100 or MEDT 3110

Structured clinical laboratory experience in urinalysis.

MEDT 4710 CLINICAL IMMUNOSEROLOGY PRACTICUM**0-V-1**

Prerequisite or corequisite: MEDT 3700 or MEDT 3710

Structured clinical laboratory experience in serology.

MEDT 4900 LABORATORY MANAGEMENT AND EDUCATION**3-0-3**

Prerequisite or corequisite: MEDT 4110, 4210, 4310, 4410, 4510, 4610, 4710

Fundamental concepts of laboratory management, operation, finance, managerial leadership, personnel administration, and educational principles for laboratory scientists.

MEDT 4990H HONORS THESIS IN MEDICAL TECHNOLOGY**0-3-3**

Prerequisite: MEDT 3000-3900 and acceptance into the Honors Program

A research project under the supervision of a departmental faculty committee. Project must include a thesis and oral presentation.

METR–Meteorology**METR 3100 INTRODUCTION TO METEOROLOGY****3-0-3**

Prerequisite: 6 semester hours of science

Introduction to the description of the state of the atmosphere and the physical laws that describe atmospheric phenomena.

MGSE–Middle Grades/Secondary Education**MGSE 3000 INTRODUCTION TO MIDDLE LEVEL TEACHING****2-0-2**

Prerequisites: none

An examination of contemporary middle school curriculum including current trends, issues, and models. Attention will be focused on middle school children, middle school teachers, integrated and interdisciplinary studies, standards-based curriculum, and multiple assessments. It is strongly suggested that the student take EDUC 3100 as a corequisite.

MGSE 3110 NATURE AND NEEDS OF THE DEVELOPING ADOLESCENT**2-0-2**

Prerequisites: none

Developmental processes from birth through adulthood with an emphasis on adolescents. It is strongly suggested that the student take EDUC 3100 as a corequisite.

MGSE 3300 ADOLESCENT LITERATURE**2-0-2**

Prerequisites: None

Investigation of literature and multimedia offerings appropriate for adolescent readers. It is strongly suggested that the student take EDUC 3100 as a corequisite.

MGSE 3500 INDEPENDENT STUDY OF BEST PRACTICES & RESEARCH IN MIDDLE GRADES EDUCATION**1-V-2**

Prerequisites: Admission to Candidacy in the Department of Middle Grades and Secondary Education , EDUC 3100, EDUC 3200

Opportunity to engage in professional projects such as: research projects, professional presentations, service learning projects, studies abroad, and other special projects directly relating to and impacting Middle Grades Education. Projects must be approved by the Department. See Department for policies and procedures.

MGSE 3750 INTERNSHIP I**0-V-3**

Prerequisites: Admission to Candidacy in the Department of Middle Grades and Secondary Education , EDUC 3100, EDUC 3200

Opportunity to observe and participate in classroom activities in a supervised grade 4-8 public school setting.

MGSE 4200 READING AND WRITING ACROSS THE CURRICULUM**3-2-3**

Prerequisites: Admission to Candidacy in the Department of Middle Grades and Secondary Education , EDUC 3100, EDUC 3200

Teaching and evaluation of literacy through reading and writing in the content areas for adolescent learners. Directed field experience required

MGSE 4750 INTERNSHIP II - STUDENT TEACHING**0-V-12**

Prerequisites: Admission to Candidacy in the Department of Middle Grades and Secondary Education, completion of all required content and pedagogy course work.

Opportunity to use teaching knowledge and skills in a supervised 4-8 public school setting

MGSE 4811 INTERNSHIP I**0-V-6**

Prerequisite: permission of instructor or department

Supervision for one semester by college staff for students who hold teaching positions in school and/or clinical settings.

MGSE 4812 INTERNSHIP II**0-V-6**

Prerequisite: permission of instructor or department and MGSE 4811

Supervision for one semester by college staff for students who hold teaching positions in school and/or clinical settings.

MGSE 4900 INDEPENDENT STUDY**0-V-(1-3)**

Prerequisite: permission of instructor

In-depth, closely supervised, instructor-approved study in education. Student must have skills in independent research and study.

MGSE 5300U CONTENT METHODS LANGUAGE ARTS**3-2-3**

Prerequisites: Admission to Candidacy in the Department of Middle Grades and Secondary Education, EDUC 3100, EDUC 3200, MGSE 3000, MGSE 3110, MGSE 3300

Co-requisites: MGSE 3500, MGSE 4200, MGSE 3750, MGSE 5400 or MGSE 5500 or MGSE 5600
Methods, content, and materials focusing on literature and the communicative arts for adolescent learners. Directed field experience required.

MGSE 5400U CONTENT METHODS SOCIAL STUDIES**3-2-3**

Prerequisites: Admission to Candidacy in the Department of Middle Grades and Secondary Education, EDUC 3100, EDUC 3200, MGSE 3000, MGSE 3110, MGSE 3300

Co-requisites: MGSE 3500, MGSE 4200, MGSE 3750, MGSE 5300 or MGSE 5500 or MGSE 5600
Methods, content, and materials focusing on the teaching of the social studies for adolescent learners. Directed field experience required.

MGSE 5420U GEOGRAPHY FOR THE MIDDLE GRADES TEACHER**3-0-3**

Prerequisites: Admission to Candidacy in the Department of Middle and Secondary Education, EDUC 3200

Current issues and trends in teaching middle grades geography.

MGSE 5500U CONTENT METHODS SCIENCE**3-2-3**

Prerequisites: Admission to Candidacy in the Department of Middle Grades and Secondary Education, EDUC 3100, EDUC 3200, MGSE 3000, MGSE 3110, MGSE 3300

Co-requisites: MGSE 3500, MGSE 4200, MGSE 3750, MGSE 5300 or MGSE 5400 or MGSE 5600
Methods, content, and materials focusing on the teaching of science for adolescent learners. Directed field experience required.

MGSE 5600U CONTENT METHODS MIDDLE GRADES MATHEMATICS**3-2-3**

Prerequisites: Admission to Candidacy in the Department of Middle Grades and Secondary Education, EDUC 3100, EDUC 3200, MGSE 3000, MGSE 3110, MGSE 3300

Co-requisites: MGSE 3500, MGSE 4200, MGSE 3750, MGSE 5300 or MGSE 5400 or MGSE 5500
Topics in the teaching of mathematics for pre-service middle level teachers. Focus on how to teach mathematics, developing of problem solving skills, and critical thinking in mathematics. Directed field experience required.

MHSA – Health Services Administration**MHSA 5500U MANAGING HEALTH PROFESSIONALS****3-0-3**

Prerequisite: None

Examines the differences between management and clinical professionals and explores ways to better integrate these sometimes divergent interests, cultures, values, and concerns in health services organizations.

MHSA 5650U SEMINAR IN LONG TERM CARE ADMINISTRATION**1-0-1**

Statutory guidelines, facility licensing requirements, Medicare/Medicaid requirements for reimbursement, and items necessary for successful completion of Georgia state nursing home administrator licensure examination.

MHSA 5800U COMPARATIVE HEALTH CARE SYSTEMS**3-0-3**

Prerequisite: HSCC 2500

An in depth survey of the structure, function, and comparative performance of a variety of health care delivery and financing systems in the U.S. and other nations of the world.

MUSC – Music**MUSC 1000 RECITAL ATTENDANCE****0-2-0**

Attendance at a designated number of concerts and recitals each semester.

MUSC 1100 MUSIC APPRECIATION**3-0-3**

Introduction to music history and literature.

MUSC 1110 BASIC MUSIC THEORY**3-0-3**

Elements of music theory. Functions as preparation for MUSC1111 for music majors who have not passed the music theory entrance exam. May not be used for credit towards a music degree.

MUSC 1111 ELEMENTARY MUSIC THEORY I**2-2-2**

Prerequisite: MUSC 1110 or passing music theory entrance exam

Corequisite: MUSC 1130

Basic theoretical principles of music, including analysis, sightsinging, and ear training. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

MUSC 1112 ELEMENTARY MUSIC THEORY II**2-2-2**

Prerequisite: MUSC 1111

Corequisite: MUSC 1130

A continuation of MUSC 1111 with emphasis on part writing of diatonic material up through seventh chords. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

MUSC 1130 INTRODUCTION TO KEYBOARD HARMONY**0-2-1**

Prerequisite: permission of instructor or department

Corequisite: MUSC 1111 or MUSC 1112

Keyboard techniques which reinforce theoretical concepts covered in MUSC1111, including those skills needed to fulfill the piano proficiency exam. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

MUSC 1270 WORLD ART AND MUSIC**3-0-3**

Comparison of traditional art and music from a variety of world cultures. Emphasis on art and music's role, media and techniques, and the inherent personal expression of various artists and composers. Crosslisted as ARTS 1270.

MUSC 1300 APPLIED MUSIC**0-1-1**

Prerequisite: permission of instructor or department

Offered primarily for music majors, with a limited number of non-majors accepted when schedules permit. Students must pass a qualifying audition. Consists of one 25-minute private lesson per week; additionally all students enrolled in applied music are required to participate in weekly performance classes. Applicable to music degree only for secondary applied credit. May be repeated for credit.

MUSC 1400 APPLIED MUSIC 0-2-2

Prerequisite: permission of instructor or department

Corequisite: MUSC 2540 or MUSC 2560

Offered for music majors. Students must pass a qualifying audition. Consists of one 50-minute lesson or two 25-minute lessons per week; additionally all students enrolled in applied music are required to participate in weekly performance classes in their major area and to attend recitals and concerts. May be repeated for credit.

MUSC 2010 UNDERSTANDING JAZZ 2-0-2

Non-technical survey of important jazz performers and styles.

MUSC 2111 INTERMEDIATE THEORY I 2-2-2

Prerequisite: MUSC 1112

Corequisite: MUSC 2130

Continuation of MUSC 1112 with an emphasis on chromatic harmony and the introduction of binary and ternary formal structures. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

MUSC 2112 INTERMEDIATE THEORY II 2-2-2

Prerequisite: MUSC 2111

Corequisite: MUSC 2130

Continuation of MUSC 2111 with an emphasis on harmonic practices of the late nineteenth and twentieth centuries, including triads of higher tertian relationships, synthetic scalar materials, atonality, and twelve-tone technique. Must be completed with a grade of C or better in order to continue in the theory/keyboard harmony sequence.

MUSC 2130 ADVANCED KEYBOARD HARMONY 0-2-1

Prerequisite: MUSC 1130

Corequisite: MUSC 2111 or MUSC 2112

Keyboard techniques which reinforce theoretical concepts covered in MUSC 2111, including those skills needed to fulfill the piano proficiency exam. Must be completed with a grade of C or higher in order to continue in the theory/keyboard harmony sequence.

MUSC 2171 LYRIC DICTION I 2-0-2

Prerequisite: permission of instructor or department

International phonetic alphabet and the phonetics of standard American English and Italian for singing.

MUSC 2172 LYRIC DICTION II 2-0-2

Prerequisite: MUSC 2171

Orientation of the phonetics of liturgical Latin, German and French for singing by means of the international phonetic alphabet.

MUSC 2201 JAZZ IMPROVISATION I 0-2-1

Prerequisite: MUSC 1112

Improvisation through study of scales, chords, melodic concepts, ear training and analysis.

MUSC 2202 JAZZ IMPROVISATION II 0-2-1

Prerequisite: MUSC 2201

Continuation of MUSC 2201.

MUSC 2240 CLASS GUITAR 0-2-1

Prerequisite: permission of instructor or department

Basic skills for guitar accompaniment of folk songs and popular music.

MUSC 2270 CLASS VOICE 0-2-1

Prerequisite: ability to read music

Vocal technique with practical application to standard song literature. Applicable to a music degree only for secondary applied credit. May be repeated for credit. Ability to read music required.

MUSC 2280 CLASS PIANO NON-MUSIC MAJORS 0-2-1

Prerequisite: permission of instructor or department

Keyboard literature and techniques at the beginning and elementary levels. May be repeated for credit.

MUSC 2360 BRASS METHODS 0-2-1

Open only to music majors. Principles of brass instrument performance and pedagogy.

MUSC 2370 WOODWIND METHODS 0-2-1

Open only to music majors. Principles of woodwind performance and pedagogy.

MUSC 2380 PERCUSSION METHODS 0-2-1

Open only to music majors. Principles of percussion instrument performance and pedagogy.

MUSC 2390 STRING AND GUITAR METHODS 0-2-1

Open only to music majors. Principles of string and guitar performance and pedagogy.

MUSC 2400 APPLIED MUSIC 0-2-2

Prerequisite: permission of instructor or department and MUSC 1400

Corequisite: MUSC 2540 or MUSC 2560

Open only to music majors. Students must pass a qualifying audition. Consists of one 50-minute lesson or two 25-minute lessons per week; additionally, all students enrolled in applied music are required to participate in weekly performance classes in their major area and to attend recitals and concerts. May be repeated for credit.

MUSC 2500 PEP BAND 0-2-1

Group to provide spirit music at school athletic functions. May be taken for a credit a maximum of four times. Open to qualified students.

MUSC 2510 SAVANNAH WINDS 0-2-1

Group which rehearses and performs standard literature for symphonic band. Open to qualified students.

MUSC 2520 JAZZ ENSEMBLE 0-2-1

Prerequisite: permission of instructor or department

Repertoire selected from a variety of jazz periods and styles. Public performances required.

MUSC 2530 UNIVERSITY SINGERS 0-2-1

Corequisite: MUSC 2540

Repertoire selected from vocal chamber literature including classic literature and jazz. Public performances each term. Membership open to all students by audition.

MUSC 2540 UNIVERSITY CHORALE 0-3-1

Repertoire selected from standard choral concert literature. Public performances each semester. Membership open to all students. Ability to read music desired, but not required.

MUSC 2550 CHAMBER ENSEMBLE 0-2-1

Open to all qualified students in the performance media of brass, woodwind, strings, keyboard, and percussion.

MUSC 2560 WIND ENSEMBLE 0-3-1

Prerequisite: permission of instructor or department

Repertoire selection from standard wind ensemble literature. Public performances required.

MUSC 2580 KEYBOARD ACCOMPANYING 1-1-2

Open only to music majors. Basic principles of accompaniment for vocal and instrumental solo and chamber music.

MUSC 2810 CONDUCTING 1-1-1

Prerequisite: MUSC 1112

Open only to music majors. Conducting techniques and interpretation.

MUSC 3120 FORM AND ANALYSIS**2-0-2**

Prerequisite: MUSC 2112

Open only to music majors. Principles of form in music, including imitative techniques and forms, and techniques of harmonic analysis.

MUSC 3200 MUSIC FOR THE ELEMENTARY TEACHER**2-1-2**

Prerequisite: admission to candidacy in the Department of Early Childhood.

Materials and methods for teaching general music in the elementary classroom. Not open to music majors.

MUSC 3400 APPLIED MUSIC**0-2-2**

Prerequisite: permission of instructor or department and passage of rising junior exam

Corequisite: MUSC 3540 or MUSC 3560

Open only to music majors. Consists of one 50-minute lesson or two 25-minute lessons per week; additionally, all students enrolled in applied music are required to participate in weekly performance classes in their major area and to attend recitals and concerts. May be repeated for credit.

MUSC 3450 HALF RECITAL**0-1-0**

Co-requisite: MUSC 3400

Open only to music majors. Junior-level public performance of 25-30 minutes of appropriate repertoire for major instrument, voice, or keyboard studied. Successful completion of recital preview required prior to performance.

MUSC 3470 MUSIC MANAGEMENT**3-0-3**

Prerequisite: ENGL 1101

Theory and practice in music programming management, including audience analysis and development, publicity, promotions, and marketing tools examined.

MUSC 3510 SAVANNAH WINDS**0-2-1**

Prerequisite: four semesters of MUSC 2510

Rehearsals and performances of standard literature for symphonic band.

MUSC 3520 JAZZ ENSEMBLE**0-2-1**

Prerequisite: four semesters of MUSC 2520 and permission of instructor or department

Repertoire selected from a variety of jazz periods and styles. Public performances required.

MUSC 3530 UNIVERSITY SINGERS**0-2-1**

Prerequisite: four semesters of MUSC 2530

Corequisite: MUSC 3540

Repertoire selected from vocal chamber literature including classic literature and vocal jazz. Public performances each term. Membership open to all students by audition.

MUSC 3540 UNIVERSITY CHORALE**0-3-1**

Prerequisite: four semesters of MUSC 2540

Repertoire selected from standard choral concert literature. Public performances each term.

MUSC 3550 CHAMBER ENSEMBLE**0-2-1**

Prerequisite: four semesters of MUSC 2550

Open to all qualified students in the performance media of brass, woodwind, strings, keyboard, and percussion.

MUSC 3560 WIND ENSEMBLE**0-3-1**

Prerequisite: four semesters of MUSC 2560

Repertoire selection from the standard wind ensemble literature. Public performances required.

MUSC 3610 ORCHESTRATION AND ARRANGING**2-0-2**

Prerequisite: MUSC 2112

Open only to music majors. Techniques of orchestration; arranging for instrumental and choral groups.

MUSC 3710 MUSIC HISTORY I 3-0-3

Prerequisite: MUSC 1100 and MUSC 1111 and MUSC 1130

History of music in western civilization from origin to end of baroque era.

MUSC 3720 MUSIC HISTORY II 3-0-3

Prerequisite: MUSC 1100 and MUSC 1111 and MUSC 1130

History of music in western civilization from classical era to present; influence of world music.

MUSC 3760 INTERNSHIP I - PRE-STUDENT TEACHING 0-V-1

Prerequisites: admission to candidacy in the Department of Art, Music and Theatre

Directed practice in the teaching of students in P-12 public school setting.

MUSC 4110 COMPOSITION V-V-V

Prerequisite: MUSC 2112

Open only to music majors. Musical composition. May be repeated for credit.

MUSC 4120 COUNTERPOINT 2-0-2

Prerequisite: MUSC 2112

Open only to music majors. Contrapuntal practices of eighteenth century music.

MUSC 4160 INSTRUMENTAL PEDAGOGY AND REPERTOIRE 2-0-2

Prerequisite: permission of instructor or depart. MUSC 2360 or 2370 or 2380 or 2390, appropriate to major instrument. Successful completion of MUSC 3450 - Half Recital.

Instrumental pedagogical techniques and survey of literature for brass, woodwind, strings or percussion instruments.

MUSC 4200 PIANO LITERATURE I 2-0-2

Historical, stylistic, formal and aesthetic features of piano literature of the baroque and classical periods.

MUSC 4210 PIANO LITERATURE II 2-0-2

Historical, stylistic, formal, and aesthetic features of piano literature of the romantic and contemporary periods.

MUSC 4250 KEYBOARD PEDAGOGY 2-0-2

Open only to music majors. Historical overview of pedagogical techniques of the piano and a survey of literature suited for teaching purposes.

MUSC 4251 GROUP KEYBOARD PEDAGOGY 1-1-1

Open only to music majors, or by permission of the instructor. An overview of pedagogical materials appropriate to group instruction, incorporating electronic keyboard labs, for primary, secondary, and adult educational levels.

MUSC 4270 VOCAL PEDAGOGY 2-0-2

Prerequisite: permission of instructor or department

Pedagogical techniques of the voice and a survey of literature suited for teaching purposes. Successful completion of the Rising Junior Voice Exam required.

MUSC 4290 ART SONG 2-0-2

Prerequisite: MUSC 1100

Historical, stylistic, formal, and aesthetic characteristics of the art song from its origins to the present day.

MUSC 4320 SYMPHONIC MUSIC LITERATURE 2-0-2

Prerequisite: MUSC 1100

Historical, stylistic, formal, and aesthetic features of symphonic music.

MUSC 4350 BAND REPERTOIRE AND ADVANCED INSTRUMENTAL CONDUCTING**3-1-3**

Prerequisite: MUSC 2810 and successful completion of piano proficiency exam, and either MUSC 3120 or MUSC 3610.

Corequisite: MUSC 2560 or MUSC 3560

Open only to music majors. Literature and performance practice for school instrumental ensembles. Advanced techniques in instrumental conducting. Includes a laboratory experience.

MUSC 4360 CHORAL REPERTOIRE AND ADVANCED CHORAL CONDUCTING**3-1-3**

Prerequisite: Open only to music majors. MUSC 2810, successful completion of piano proficiency exam and either MUSC 3120 or MUSC 3610.

Co-requisite: MUSC 2540 or MUSC 3540

Literature and related performance practice for school choral ensembles. Advanced techniques in choral conducting. Includes a laboratory experience.

MUSC 4400 APPLIED MUSIC**0-3-3**

Prerequisite: permission of instructor or department and MUSC 3400

Open only to music majors. Consists of one 50-minute lesson or two 25-minute lessons per week; additionally, all students enrolled in applied music are required to participate in weekly performance classes in their major area and to attend recitals and concerts. May be repeated for credit.

MUSC 4450 FULL RECITAL**0-2-0**

Co-requisite: MUSC 4400

Open only to music majors. Senior-level public performance of 50-60 minutes of appropriate repertoire for major instrument, voice, or keyboard studied. Successful completion of recital preview required prior to performance.

MUSC 4460 COMPOSITION PORTFOLIO**0-4-2**

Co-requisite: six semester hours of MUSC 4110

Development of an original body of work for a variety of performance media. Includes public presentation of the material in a performance organized by the student.

MUSC 4760 INTERNSHIP II - STUDENT TEACHING**0-V-12**

Prerequisites: admission to candidacy in the Department of Art, Music and Theatre; completion of all coursework.

Supervised field-based teaching experiences providing the opportunity to use knowledge and skills in a P-12 public school setting. A capstone course.

MUSC 4850 SENIOR PROJECT**0-4-2**

Prerequisite: MUSC 2810 and either MUSC 3120 or MUSC 3610 and successful completion of piano proficiency exam

Corequisite: MUSC 4400

Open only to music majors. Written research document submitted for faculty review to address senior recital program. May include: composer biography, program notes, translations (if applicable), formal analysis, genre parameters or other material, as approved by the department.

MUSC 4890 SELECTED STUDIES IN MUSIC**V-V-(1-5)**

Prerequisite: permission of instructor or department

Varied course offerings designed to meet special institutional and community needs. May be repeated for credit.

MUSC 4900 DIRECTED INDIVIDUAL STUDY**V-V-(1-5)**

Prerequisite: permission of instructor or department

Open only to music majors. Supervised individual research or study.

MUSC 4910 INTERNSHIP**V-V-(1-5)**

Prerequisite: permission of instructor or department

Open only to music majors. Supervised individually designed course project involving off-campus study, work, and/or research. Projects are under the joint supervision of the sponsoring institution and the faculty supervisor.

MUSC 5430U TECHNOLOGY IN MUSIC**2-1-2**

Prerequisite: acceptance into the Music Program, or by permission of instructor.

Examination of the impact of technology on music and music education, with an emphasis on computer music notation. Other topics may include Musical Instrument Digital Interface (MIDI), basic sequencing software, technology applications for live music, and basic audio recording skills.

MUSC 5300U CURRICULUM AND METHODS IN GENERAL MUSIC**3-2-3**

Prerequisites: admission to candidacy in the Department of Art, Music and Theatre

Open only to music majors. Overview of curriculum, methods, classroom management and technology appropriate for P-8 general music programs. Twenty hours of practicum work is required.

MUSC 5330U BAND METHODS**2-1-2**

Prerequisite: MUSC 2810 and admission to candidacy in the Department of Art, Music and Theatre or permission of instructor

Organization and development of school concert and marching band ensembles. Includes a laboratory experience.

MUSC 5340U CHORAL METHODS**2-1-2**

Prerequisite: MUSC 2810 and admission to candidacy in the Department of Art, Music and Theatre or permission of instructor

Organization and development of choral ensembles in secondary schools. Includes a laboratory experience.

NURS–Nursing**NURS 3304 PROFESSIONAL NURSING PRACTICE****3-0-3**

Prerequisites: Admission to Nursing Program, BIOL 2275

Prerequisite or corequisites: NURS 3309

Theoretical concepts for the foundation of professional nursing

NURS 3309 PATHOPHYSIOLOGY**3-0-3**

Prerequisite: Admission to Nursing Program, BIOL 2082 or Permission of Undergraduate Coordinator or Department Head

Prerequisite or Corequisite: BIOL 2275

Principles of pathophysiology with an emphasis on implications for nursing practice.

NURS 3311 INTRODUCTION TO PHARMACOLOGICAL CONCEPTS FOR NURSING 2-0-2

Prerequisites or Corequisites: Admission to the Nursing Program; NURS 3344

Principles of pharmacology with an emphasis on implications for nursing practice.

NURS 3312 PHARMACOLOGICAL CONCEPTS FOR NURSING I**2-0-2**

Prerequisites or Corequisites: NURS 3345

Principles of pharmacology with an emphasis on pharmacologic interventions for mental health and adult health nursing practice.

NURS 3320 HEALTH ASSESSMENT OF THE WELL INDIVIDUAL**3-3-4**

Prerequisite or corequisite: NURS 3344

Application of techniques to assess the well individual. Variations and risk factors related to age, gender, and ethnic origin will be explored.

NURS 3344 SKILLS AND ESSENTIALS OF NURSING PRACTICE**3-3-4**

Prerequisites or corequisites: Admission to Nursing Program, BIOL 2275

Application of basic and therapeutic patient care skills and interventions in simulated and clinical practice settings.

NURS 3345 ADULT HEALTH I**4-6-6**

Prerequisites: NURS 3304, NURS 3344, NURS 3320, NURS 3311, NURS 3309

Prerequisites or corequisites: NURS 3312

Therapeutic nursing interventions for adult clients with simple alterations in inflammation and immunity, perception and coordination, oxygenation, metabolism, and fluid and electrolytes.

- NURS 3535 MENTAL HEALTH** 4-6-6
Prerequisites: NURS 3304, NURS 3344, NURS 3320, NURS 3311, NURS 3309
Pre/corequisites: NURS 3345, NURS 3312
Health restoration of clients with disruptions in mental health.
- NURS 3610 - STRATEGIES FOR SUCCESS IN PROFESSIONAL NURSING** 1-6-3
Prerequisite: First semester nursing courses, or permission of instructor
This elective course provides an opportunity for students to develop strategies for success in nursing. Learning style, study and testing techniques to enhance academic and professional performance are explored.
- NURS 4000 PROFESSIONAL NURSING PRACTICE** 3-0-3
Prerequisite: admission to the RN options program
Socialization process to promote role transition and the development of communication skills. Emphasizes development of written and oral communication skills.
- NURS 4002 LEADERSHIP AND MANAGEMENT FOR PROFESSIONAL NURSES** 3-0-3
Prerequisite: NURS 4000
Application of leadership/management concepts, theories, and principles in the practice setting.
- NURS 4003 HEALTH CARE SYSTEMS AND POLICY** 3-0-3
Prerequisite: NURS 4000
Exploration of health care systems and policy from a global and national nursing perspective.
- NURS 4004 HEALTH ASSESSMENT** 2-3-3
Prerequisite: NURS 4000 and NURS 4008
Comprehensive health assessment of the individual, using didactic and laboratory activities with a health promotion focus.
- NURS 4005 POPULATION FOCUSED COMMUNITY NURSING IN A GLOBAL SOCIETY** 3-6-5
Prerequisite: admission to the RN options program
Population focused community nursing practice in a global society for registered nurses.
- NURS 4006 PROFESSIONAL ROLE SYNTHESIS** 3-0-3
Prerequisite or corequisite: Taken in the final semester of nursing curriculum.
Synthesis of nursing and core curriculum concepts to apply meaning to the role of professional nurse.
- NURS 4007 CULTURE AND FAMILIES** 2-0-2
Prerequisite: Admission to RN Options and NURS 4000
Exploration of cultural variations in family health promotion.
- NURS 4008 PATHOPHYSIOLOGY/PHARMACOLOGY** 3-0-3
Prerequisite: Admission to the RN Options Program
Pre/Co-requisites: NURS 4000
Principles of pathophysiology and pharmacology with an emphasis on implications for nursing practice.
- NURS 4210 GERONTOLOGY IN THE 21ST CENTURY** 3-0-3
Prerequisites: Admission to the BSN program or permission of course instructor
Explore normal aging, theories of aging, and the effect society has on the increasing geriatric population.
- NURS 4211 VULNERABLE POPULATIONS** 3-0-3
Prerequisites: Admission to the BSN program or permission of course instructor
This course provides an overview of vulnerable populations and the role of the nurse in the health care of these populations.

- NURS 4212 INTERNATIONAL NURSING ISSUES AND TRENDS** 3-0-3
Prerequisites: Admission to the BSN program or permission of course instructor
Explores the influence of culture, economics, politics, and technology on global health.
- NURS 4213 INTRODUCTION TO FORENSIC NURSING AND THE LAW** 3-0-3
Prerequisites: Admission to the BSN program or permission of course instructor
This course provides an introduction to the principles of forensic nursing and legal issues related to nursing practice.
- NURS 4214 COMPLEMENTARY AND ALTERNATIVE MODALITIES** 3-0-3
Prerequisite or corequisite: Admission to the BSN program or permission of course instructor
This course provides an overview of complementary and alternative medicine (CAM). A variety of healing practices will be examined.
- NURS 4215 HOME HEALTH NURSING** 2-1-3
Prerequisites: NURS 3304, 3345, 3320, 3308, 3309, 3340, and either 3355 or 3425
Therapeutic nursing interventions of clients in the home setting.
- NURS 4216 PALLIATIVE CARE AT END OF LIFE** 2-3-3
Prerequisite or corequisite: Admission to the BSN program or permission of course instructor
Explore and address the critical aspects of end of life care in the adult client across all life threatening illnesses.
- NURS 4217 CRITICAL CARE** 1-6-3
Prerequisites or corequisite: NURS 4345
Nursing care of the adult client in critical care settings with life threatening alterations in health. Emphasis is placed on the role of the professional nurse in the restoration and maintenance of health with clients and their families experiencing critical illness.
- NURS 4218 PERIOPERATIVE NURSING** 1-6-3
Prerequisites: NURS 3304, 3308, 3320, and 3345
Explores the role of the nursing in the perioperative setting.
- NURS 4219 NURSING PERSPECTIVES: THEN, NOW, AND THE FUTURE** 3-0-3
Prerequisite or corequisite: Admission to the BSN program or permission of course instructor
Analyzes the influences of significant historical nursing figures through present day as it influences the future of nursing.
- NURS 4220 WOMEN AND LEADERSHIP IN NURSING** 3-0-3
Prerequisite or corequisite: Admission to the BSN program or permission of course instructor
Explores historical and contemporary perspectives and attitudes of women as nurses and leaders.
- NURS 4221 NURSING PRACTICE IN THE MILITARY** 3-0-3
Prerequisite or corequisite: Admission to the BSN program or permission of course instructor
Examine the social, political, environmental, and global impact of military warfare on nursing practice in context of nursing leadership, practices and traditions.
- NURS 4222 PEDIATRIC NURSING EXTERNSHIP** 1-6-3
Prerequisites: NURS 3304, NURS 3308, NURS 3309, NURS 3320, NURS 3345, NURS 3425, NURS 3355
Nursing care of the complex pediatric client in the acute care setting.
- NURS 4223 MATERNAL/INFANT NURSING EXTERNSHIP** 1-6-3
Prerequisites: NURS 3304, NURS 3308, NURS 3309, NURS 3320, NURS 3345, NURS 3425, NURS 3355
Nursing care of the complex obstetric and neonatal client in the acute care setting.
- NURS 4224 MEDICAL-SURGICAL ONCOLOGY NURSING EXTERNSHIP** 1-6-3
Prerequisite: NURS 3345
Nursing care of the complex oncological client in the acute care setting.

NURS 4225 MEDICAL-SURGICAL NEUROSCIENCE NURSING EXTERNSHIP 1-6-3

Prerequisite: NURS 3345

Nursing care of the complex neurological client in the acute care setting.

NURS 4226 MEDICAL-SURGICAL COMPLEX MEDICAL NURSING EXTERNSHIP 1-6-3

Prerequisite: NURS 3345

Nursing care of the client with co-morbid conditions in the acute care setting.

NURS 4313 PHARMACOLOGICAL CONCEPTS FOR NURSING II 2-0-2

Prerequisites or Corequisites: NURS 4345, NURS 4355

Principles of pharmacology with emphasis on pharmacologic interventions across the lifespan.

NURS 4345 ADULT HEALTH II 4-9-7

Prerequisites: NURS 3345, NURS 3535, NURS 3312

Pre/Corequisites: NURS 4313

Therapeutic nursing interventions for adult clients with complex alterations in inflammation and immunity, perception and coordination, oxygenation, metabolism, and fluid and electrolytes.

NURS 4355 WOMEN AND CHILDREN'S HEALTH 4-6-6

Prerequisites: NURS 3345, NURS 3535, NURS 3312

Prerequisite or corequisites: NURS 4345, NURS 4313

Therapeutic nursing interventions to promote health and prevent illness of women and children in a variety of clinical settings.

NURS 4440 POPULATION FOCUSED NURSING 2-9-5

Prerequisites: NURS 4345, NURS 4355, NURS 4313-and NURS 4445

The professional nurse's role in population focused health care.

NURS 4445 RESEARCH FOR EVIDENCE-BASED PRACTICE 3-0-3

Prerequisite: MATH 2220 and admission to the nursing major

Critique and utilization of research as a basis for evidence based practice.

NURS 4450 PROFESSIONAL NURSING LEADERSHIP AND MANAGEMENT 4-9-7

Prerequisites: NURS 4440, NURS 4446

Leadership and management roles of the professional nurse in selected clinical settings.

NURS 4460 PROFESSIONAL NURSING SEMINAR 3-0-3

Prerequisites or corequisites: NURS 4440 and NURS 4450

Exploration of nursing trends and issues.

NURS 4466 CRITICAL SCIENTIFIC INQUIRY 0-3-1

Prerequisites or corequisites: NURS 4450 and NURS 4440

Synthesis of knowledge and skills for critical inquiry in professional nursing practice.

NURS 4490 TOPICS IN PROFESSIONAL NURSING V-V-(1-4)

The student, in consultation with the professor, selects a topic and submits a proposal for supervised independent study.

NURS 4495H NURSING HONORS PROJECT 0-6-2

Prerequisite: admission to nursing honors program

Honors project under the supervision of a departmental nursing facility member.

OCEA–Oceanography**OCEA 3100 INTRODUCTION TO OCEANOGRAPHY 3-0-3**

Prerequisite: 6 semester hours of science

Basic principles of oceanography. The distribution of water over the earth, nature and relief of the ocean floors, tides and currents, chemical properties of sea water and constituents, and application of oceanographic research.

PEAT–Physical Education - Athletic Training**PEAT 2100 PREVENTION AND CARE OF SPORT INJURIES****2-1-2**

Foundations of assessment, evaluation, theory, and practice of prevention, treatment, and care of sports related injuries. Provides student with American Red Cross safety, CPR and first aid certification. ARC safety, CPR, and first aid certification and fee required.

PEBC–Physical Education Activities**PEBC 1000 BEGINNING WEIGHT TRAINING****0-2-1**

Mechanical principles and techniques necessary for the understanding of weight training programs.

PEBC 1010 LIFETIME FITNESS TRAINING**0-3-1**

Basic fitness concepts and their application to everyday life. Participation in an individualized program of aerobic activity.

PEBC 1020 AEROBIC DANCE**0-3-1**

A combination of exercise and dance steps to improve the cardiovascular system, muscular endurance, strength, and flexibility.

PEBC 1070 TEAM SPORTS**0-2-1**

Consists of two of the following sports: basketball, volleyball, soccer, and softball.

PEBC 1080 BOWLING**0-2-1**

Basic skills in bowling. Minimum of two games required per class period at student's expense. Must provide own transportation.

PEBC 1090 ARCHERY**0-2-1**

Basic skills in archery for recreational use. Students must provide own arm and finger guards.

PEBC 1100 TUMBLING AND STUNTS**0-2-1**

Fundamentals and practice in beginning tumbling and gymnastic apparatus.

PEBC 1200 YOGA FOR BEGINNERS**0-3-1**

Students will be introduced to the basic principles and benefits of yoga. Students will strengthen and stretch muscles while improving flexibility, body alignment, and breathing techniques. Each class meeting will consist of a variety of physical warm-ups, alignment, breathing exercises, asanas (yoga postures), and relaxation exercise.

PEBC 1301 BASIC SWIMMING SKILLS**0-3-1**

Skills and strokes for the student unfamiliar with or afraid of the water and who cannot swim.

PEBC 1302 INTERMEDIATE SWIMMING**0-2-1**

Six basic strokes, skills, endurance, and knowledge pertaining to safety in, on, or about water.

PEBC 1350 BEGINNING SCUBA**0-3-1**

Beginning recreational scuba diving activities in local aquatic environments. Additional fee is required. Must provide own transportation.

PEBC 1380 WATER AEROBICS AND EXERCISE**0-3-1**

Principles of cardiorespiratory fitness associated with aquatics and resistance training. No swimming skills required.

PEBC 1401 ELEMENTARY TENNIS**0-2-1**

Basic skills, rules, strategies, and practice for singles and doubles in tennis. Student must provide own racket and one can of new tennis balls.

PEBC 1402 INTERMEDIATE TENNIS**0-2-1**

Advanced techniques and knowledge of skills and strategy in tennis. Student must provide own racket and can of new tennis balls.

PEBC 1450 BADMINTON 0-2-1

Basic skills, rules, strategies, and practice for singles and doubles.

PEBC 1501 BEGINNING MODERN DANCE 0-2-1

Art of modern dance including technique, exercise, basic improvisation, dance positions, and locomotor movement.

PEBC 1502 FOLK, SOCIAL, AND CONTEMPORARY DANCING 0-2-1

Continuation of PEBC 1501 with emphasis on dynamics, composition, and choreography.

PEBC 1530 INTERMEDIATE MODERN DANCE 0-2-1

Instruction and practice in many forms of folk, square, and social dancing.

PEBC 1551 BASIC BALLET 0-2-1

A review of basic ballet steps, exercises, and stretches. Emphasis on body placement and practice in using steps in combinations.

PEBC 1552 INTERMEDIATE BALLET 0-2-1

Advanced techniques and knowledge; refinement of ballet skills.

PEBC 1580 JAZZ DANCING 0-2-1

Modern, lyrical, and hip hop forms of jazz, including fundamental techniques and choreography.

PEBC 1601 BEGINNING GOLF 0-2-1

Basic techniques and instruction for the beginning golfer. Minimum of 9 holes of golf must be played outside of class at student's expense. Must provide own transportation to off-campus site.

PEBC 1602 INTERMEDIATE GOLF 0-2-1

Prerequisite: PEBC 1601 or permission of instructor

Review and refinement of beginning skills, etiquette, and strategies of golf. Must provide own transportation to off-campus site.

PEBC 2000 CONCEPTS OF FITNESS 2-1-3

Theoretical knowledge and practical experience in the principles, assessment, and development of fitness for living. Students will develop and implement personalized fitness programs. Instruction and certification in American Red Cross Safety, First Aid, CPR and AED training included. Administrative fee paid to American Red Cross for proof of certification.

PEEC—Physical Education Elective**PEEC 2000 SAFETY, FIRST AID AND CPR 2-0-1**

The American Red Cross course in "workplace training: Standard First Aid with CPR". Workplace knowledge and skills necessary to recognize and provide basic care for injuries and sudden illnesses until advanced medical personnel arrive. Includes use of an automated external defibrillator (AED) for victims of sudden cardiac arrest. Administrative fee paid to American Red Cross for proof of certification.

PEEC 2180 OFFICIATING TEAM SPORTS 2-2-2

Rules, mechanics and ethics involved in officiating a variety of team sports activities. Students must provide own equipment appropriate to the sports and transportation for off-campus assignment.

PEEC 3000 TAP DANCE 0-1-1

Designed to teach the most frequently used step combinations applied in choreographed tap dance routines. Performance of one or more routines required. Students required to provide own tap shoes.

PEEC 3120 COACHING FOOTBALL 3-0-2

Instruction and practice in fundamental skills and team play. Minimum of two games must be scouted at student's expense.

PEEC 3130 COACHING BASKETBALL**3-0-2**

Instruction and practice in fundamental skills and team play, emphasizing methods and drills used by leading coaches. Minimum of two games must be scouted at student's expense.

PEEC 3140 COACHING BASEBALL AND SOFTBALL**3-0-2**

Instruction and practice in fundamental skills and team play, emphasizing methods and drills used by leading coaches. Minimum of two games must be scouted at students expense.

PEEC 3150 COACHING VOLLEYBALL AND SOCCER**3-0-2**

Rules and fundamental skills of volleyball and soccer, and individual development and application of successful coaching methods.

**PEEC 3200 HEALTH AND PHYSICAL EDUCATION FOR THE
ELEMENTARY SCHOOL TEACHER****2-0-2**

Prerequisites: Admission to the College of Education, EDUC 2110, EDUC 2120, EDUC 2130, EDUC 3100

Theory and current practice in the teaching of health and physical education at elementary school level including a directed field experience.

PEEC 3330 LIFEGUARD TRAINING**1-2-2**

Recognizing and responding to aquatic mishaps; pool health, sanitation, and management; spinal injury management; and CPR/AED/first aid.

PEEC 3340 WATER SAFETY INSTRUCTOR**2-2-2**

Methods of teaching infant and pre-school aquatics, the seven levels of "learn to swim program," as well as community water safety, ICT and safety training for swim coaches. Must be at least 17 years old and have Level VI swim skills.

PEEC 4130 SPECIAL TOPICS IN PHYSICAL EDUCATION**3-0-3**

Prerequisite: open to majors in health and physical education

Research methods in health and physical education.

PEHM – Physical Education - Health Major**PEHM 2281 HUMAN STRUCTURE AND FUNCTION I****3-0-3**

Anatomy and physiology of the major body systems.

PEHM 2283 KINESIOLOGY**2-1-2**

Prerequisite: PEHM 2281

Role of skeletal muscles in producing body movements through the application of the laws of mechanical physics.

PEHM 2500 FOUNDATIONS OF PHYSICAL EDUCATION**2-0-2**

Survey of historical foundations, interrelationships of health and physical education and the development of current progressive programs including the uses and availability of technology. Field experience required.

PEHM 2701 OUTDOOR TEAM SPORTS**3-0-3**

Analysis, demonstration, and application of basic skills and techniques necessary for instruction in flag/touch football, soccer, and softball. Field experience required.

PEHM 2702 INDOOR TEAM SPORTS**2-0-2**

Analysis, demonstration, and application of basic skills and techniques necessary for instruction in basketball, speedball, and volleyball. Field experience required.

PEHM 3000 CURRENT HEALTH EDUCATION ISSUES**3-0-3**

Discussion of disease, wellness, stress management, nutrition, exercise, weight management, lifestyle and health consumer issues, and aging. Field experience required.

PEHM 3010 INTRAMURAL AND RECREATIONAL PROGRAMS**2-0-2**

Prerequisites: none

Designed to prepare teachers to organize and administer recreational and intramural activities for grade schools, colleges and community programs. Directed field experience may be required.

PEHM 3090 BASIC GAMES, DANCE, AND RHYTHMIC ACTIVITIES**2-2-3**

Prerequisites: none

Instruction in recreational, dance and rhythmic activities for P-12 diverse populations. Directed field experience required.

PEHM 3500 EXERCISE PHYSIOLOGY**2-1-2**

Prerequisite: PEHM 2281

Response of the major body organ systems to exercise, with laboratory procedures in exercise physiology.

PEHM 3700 INDIVIDUAL AND DUAL SPORTS**3-1-3**

Analysis, demonstration, and application of basic skills and techniques necessary for instruction in individual and dual sports. Field experience required.

PEHM 4000 FITNESS THEORY AND NUTRITION**2-0-2**

Prerequisites: none

Information related to fitness principles and theories, along with methodology utilized in fitness assessment and testing. Healthy nutritional practices and information will be introduced. Directed field experiences may be required.

PEHM 4090 HEALTH EDUCATION TOPICS**3-0-3**

Prerequisites: none

In-depth information on substance abuse (drugs, chemical misuse, abuse, prevention and treatment). Additional content coverage will include sexual behavior, sexually transmitted diseases, pregnancy, abstinence and parenthood, along with the techniques utilized for conflict resolution.

PEHM 4100 ADAPTIVE PHYSICAL EDUCATION**2-0-2**

Prerequisites: none

Instruction in methods for adapting physical education instruction to meet the needs of students with disabilities. Directed field experience may be required.

PEHM 4500 MANAGEMENT AND OPERATION OF PHYSICAL EDUCATION AND SPORTS PROGRAMS**3-3-3**

Prerequisites: Admission to Candidacy in the Department of Health and Physical Education

An overview of classroom management theory and best practices as related to the characteristics of learners and effective pedagogy in the physical education environment. Directed field experience is required.

PEHM 4701 ELEMENTARY SCHOOL HEALTH AND PHYSICAL EDUCATION CURRICULUM AND METHODS**4-1-4**

Theory and current practice in the teaching of elementary health and physical education including developing appropriate curriculum, applying appropriate teaching strategies, and writing an inclusive portfolio which will be taught in a local elementary school as a directed field experience. Field experience required.

PEHM 4702 MIDDLE SCHOOL HEALTH AND PHYSICAL EDUCATION CURRICULUM AND METHODS**4-1-4**

Prerequisite: admission to Candidacy in the Department of Health and Physical Education and PEHM 2701, PEHM 2702, and PEHM 3700

Theory and current practices in the design and development of curriculum, the selection and application of appropriate teaching strategies and techniques, and the development of a middle grades teaching portfolio in physical education. Field experience required.

**PEHM 4703 SECONDARY SCHOOL HEALTH AND PHYSICAL
EDUCATION CURRICULUM AND METHODS****4-1-4**

Prerequisite: admission to Candidacy in the Department of Health and Physical Education and PEHM 2701, PEHM 2702, and PEHM 3700

Theory and current practices in the design and development of curriculum, the selection and application of appropriate teaching strategies and techniques, and the development of a secondary teaching portfolio in physical education. Field experience required.

PEHM 4750 INTERNSHIP II - STUDENT TEACHING**0-V-12**

Prerequisites: Admission to Candidacy in the Department of Health and Physical Education and completion of all coursework

Supervised field-based teaching experiences providing the opportunity to use knowledge and skills in a P-12 public school setting.

PEHM 4811 INTERNSHIP I**0-V-6**

Prerequisite: permission of instructor or department head

Supervision for one semester by college faculty of students who hold teaching positions in a school setting.

PEHM 4812 INTERNSHIP II**0-V-6**

Prerequisite: permission of instructor or department head

Supervision for one semester by college faculty of students who hold teaching positions in a school setting.

PHIL—Philosophy**PHIL 2201 INTRODUCTION TO PHILOSOPHY****3-0-3**

Prerequisite: ENGL 1101

Basic themes, problems, vocabulary, and representative figures of philosophy. Includes an essay or projects involving documentation.

**PHIL 2251 INTRODUCTION TO ETHICS AND CONTEMPORARY MORAL
PHILOSOPHY****3-0-3**

Prerequisite: ENGL 1101

Ethical traditions of western culture and their application of historic perspectives to contemporary moral issues in medicine, business, and environmental relations.

PHIL 3110 ANCIENT PHILOSOPHY**3-0-3**

Prerequisite: ENGL 1101

Ancient philosophy with special emphasis on the Pre-Socratics, Plato, Aristotle, the Stoics, Epicureans, Skeptics, and Neo-Platonism.

PHIL 3120 MEDIEVAL PHILOSOPHY AND THE RISE OF HUMANISM**3-0-3**

Prerequisite: ENGL 1101

Medieval philosophy and the rise of humanistic studies in the Renaissance, with emphasis on Boethius, Augustine, Aquinas, Anselm, Occam, Erasmus, Bacon, Machiavelli, and Montaigne.

PHIL 3130 CONTINENTAL RATIONALISM AND BRITISH EMPIRICISM**3-0-3**

Prerequisite: ENGL 1101

The modern rationalist tradition and its rival empirical tradition, with emphasis on Descartes, Spinoza, and Leibniz; and on Hobbes, Locke, Berkeley, and Hume.

PHIL 3140 KANT AND THE 19TH CENTURY**3-0-3**

Prerequisite: ENGL 1101

Nineteenth century philosophy with emphasis on Kant, Hegel, Schopenhauer, Marx, James, Kierkegaard, and Nietzsche.

PHIL 3150 TWENTIETH CENTURY PHILOSOPHY**3-0-3**

Prerequisite: ENGL 1101

Twentieth century schools and trends in philosophy as exhibited by such figures as Heidegger, Whitehead, Moore, Wittgenstein, Sartre, and Ayer.

PHIL 3200 TECHNOLOGY, SOCIETY, AND HUMAN VALUES**3-0-3**

Prerequisite: ENGL 1101

A philosophical exploration of the formative impact of technology on the character of modern culture and human values. The study of competing descriptions and definitions of technology as well as questions regarding effective human control of technology, the moral neutrality of technology, and the effects of technology on conceptual paradigms, language, politics, economics, science, education, art, and religion.

PHIL 3330 PHILOSOPHY OF RELIGION**3-0-3**

Prerequisite: ENGL 1101 and at least one philosophy course

Major problems arising in the encounter between philosophy and religious belief (reason and faith). Emphasis on the validity and nature of religious belief, the problem of evil, as well as the meaning and status of religious language.

PHIL 3340 SYMBOLIC LOGIC**3-0-3**

Prerequisite: ENGL 1101 and at least one philosophy course

Formal logic and the techniques of symbolism used for analyzing the validity of formal deductive systems. Emphasis on the analysis of truth functions, qualification theory, and the theory of relations.

PHIL 4000 SPECIAL TOPICS**3-0-3**

Prerequisite: ENGL 1101

Offered on demand. Focuses either on a topic such as existentialism, aesthetics, philosophy of science, philosophy of language, philosophy and literature, or on one great ancient, medieval, or modern philosopher such as Plato, Aristotle, Augustine, Aquinas, Descartes, Hume, Kant, Hegel, Nietzsche, Whitehead, Sartre or Wittgenstein. May be repeated for additional credit when topics change.

PHIL 4900 INDEPENDENT STUDY**1-0-1**

Prerequisite: ENGL 1101 and an upper division PHIL course

Offered on demand. The student, with the advice and permission of the supervising professor, selects the topic and submits a prospectus for department approval before the semester in which the course is to be taken. Transient students may take this course only with permission of the department head.

PHSC – Physical Science**PHSC 1211 PHYSICAL ENVIRONMENT****3-0-3**

Prerequisite: eligibility for MATH 1111

Fundamental concepts, laws, and theories of physics. For non-science majors interested in a quantitative survey of the physics underlying the universe, including motion, energy, electricity, and astronomy.

PHSC 1211L PHYSICAL ENVIRONMENT LAB**0-2-1**

Corequisite: PHSC 1211

Laboratory investigations of the fundamental concepts, laws, and theories of physics.

PHTH–Physical Therapy**PHTH 5101U FUNCTIONAL AND STRUCTURAL ASPECTS OF MOVEMENT I****4-4-5**

Prerequisite: Admission to the DPT Program

Gross anatomy and physiology of the cardiovascular and pulmonary systems and an introduction to musculoskeletal anatomy

PHTH 5111U INTRODUCTION TO PATHOPHYSIOLOGY 1**2-0-2**

Prerequisite: Admission to the DPT Program

Basic histopathology, pathophysiology and pharmacology of the cardiovascular and pulmonary systems.

PHTH 5131U FOUNDATIONS OF PHYSICAL THERAPY EXAMINATION, EVALUATION AND INTERVENTION I **5-4-6**

Prerequisite : Admission to the DPT Program

Fundamental patient care skills including basic examination, evaluation, diagnosis, prognosis, intervention, outcomes and documentation for patients with cardiovascular and pulmonary dysfunction and an introduction to therapeutic modalities.

PHTH 5161U PHYSICAL THERAPY PRACTICE ISSUES I **1-0-1**

Prerequisite: Admission to the DPT Program

Discussions of professional socialization, cultural issues in health care, legal and ethical aspects of health care, psychosocial aspects of illness, quantitative terminology in clinical practice and clinical documentation.

PHTH 5181U CLINICAL PRACTICUM I **1-0-1**

Prerequisite: admission to professional phase of the physical therapy program

Initial exposure to the health care setting and health care professionals through discussion and half-day on-site observational experiences. Care settings will include specialty clinics, long term care facilities, hospitals, and school systems.

PHTH 5202U FUNCTIONAL AND STRUCTURAL ASPECTS OF MOVEMENT II **4-4-6**

Prerequisite: PHTH 5101U

Gross anatomy, physiology and kinesiology of the musculoskeletal system.

PHTH 5212 U INTRODUCTION TO PATHOPHYSIOLOGY 2 **2-0-2**

Prerequisite: PHTH 5111

Histopathology, pathophysiology and pharmacology of the musculoskeletal system.

PHTH 5232U FOUNDATIONS OF PHYSICAL THERAPY EXAMINATION, EVALUATION AND INTERVENTION II **6-8-8**

Prerequisite: PHTH 5131U

Fundamental patient care skills including basic examination, evaluation, diagnosis, prognosis, intervention, outcomes and documentation for patients with musculoskeletal dysfunction.

PHTH 5262U PHYSICAL THERAPY PRACTICE ISSUES II **1-0-1**

Prerequisite: PHTH 5161U

Discussions of methods and approaches to physical therapy research.

PHTH 5282U CLINICAL PRACTICUM II **0-3-1**

Prerequisite: PHTH 5181U

Exposure to health care settings through half-day, on-site observational experiences.

PHYS – Physics**PHYS 1010 THE PHYSICS OF SPORTS** **3-0-3**

Prerequisite: MATH 1111

Fundamental concepts, laws, and theories of physics as they relate to a variety of sports, including volleyball, soccer, tennis, golf, and more. For non-science majors interested in the concepts underlying the mechanics of the skills and movements involved in a variety of physical activities. Includes in-class demonstrations and activities.

PHYS 1111 INTRODUCTORY PHYSICS I **3-0-3**

Prerequisite: MATH 1113 with a grade of C or better

Prerequisite or corequisite: PHYS 1111L

Introductory mechanics, thermodynamics, and waves using elementary algebra and trigonometry.

PHYS 1111L INTRODUCTORY PHYSICS I LAB **0-3-1**

Prerequisite: MATH 1113

Prerequisite or corequisite: PHYS 1111

Laboratory investigation of the concepts of mechanics, thermodynamics, and waves.

PHYS 1112 INTRODUCTORY PHYSICS II 3-0-3

Prerequisite: PHYS 1111

Prerequisite or corequisite: PHYS 1112L

Introductory electromagnetism, optics, and modern physics using elementary algebra and trigonometry.

PHYS 1112L INTRODUCTORY PHYSICS II LAB 0-3-1

Prerequisite or corequisite: PHYS 1112

Laboratory investigations of the concepts of electricity, magnetism, geometric and physical optics, and modern physics.

PHYS 2211 PRINCIPLES OF PHYSICS I 3-0-3

Prerequisite: MATH 1161

Prerequisite or corequisite: PHYS 2211L

Introductory mechanics, thermodynamics, and waves using elementary differential calculus.

PHYS 2211L PRINCIPLES OF PHYSICS I LAB 0-3-1

Prerequisite or corequisite: PHYS 2211

Laboratory investigation of the concepts of mechanics, thermodynamics and waves.

PHYS 2212 PRINCIPLES OF PHYSICS II 3-0-3

Prerequisite: PHYS 2211 and MATH 2072

Prerequisite or corequisite: PHYS 2212L

Introductory electromagnetism, optics, and modern physics using elementary differential and integral calculus.

PHYS 2212L PRINCIPLES OF PHYSICS II LAB 0-3-1

Prerequisite or corequisite: PHYS 2212

Laboratory investigations of the concepts of electricity and magnetism, optics, and modern physics.

PHYS 2900 INTRODUCTION TO RESEARCH IN PHYSICS 0-(3-9)-(1-3)

Prerequisite or corequisite: permission of the department head and PHYS 2212

Faculty directed physics research project. Written report required.

PHYS 3100 ELECTRICAL CIRCUIT ANALYSIS 3-0-3

Prerequisite: PHYS 2212

Prerequisite or corequisite: MATH 3411

Basic laws of electrical circuits: RCL circuits, nodal and mesh analysis. Thevenin's and Norton's theorems; phasors, magnetically coupled circuits, and two-port parameters.

PHYS 3120 DIGITAL ELECTRONICS 1-6-3

Prerequisite: MATH 1113 and 8 semester hours of lab science

Introduction to discrete components and integrated circuits. Hands-on lab experience in constructing and investigating an array of digital circuits that are directly applicable in instrumentation.

PHYS 3210 INTERMEDIATE MECHANICS 3-0-3

Prerequisite: ENGR 2201

Kinematics of particles and rigid bodies; kinetics of particles and rigid bodies using force-mass-acceleration, work-energy, and momentum methods in two- and three-dimensional motion. Computer modeling of mechanical systems.

PHYS 3220 MECHANICS OF DEFORMABLE BODIES 3-0-3

Prerequisite: ENGR 2020

Internal effects and dimension changes of solids resulting from external applied loads; shear and bending moment diagrams, analysis of stress and strain; beam deflection; column stability.

PHYS 3230 FLUID MECHANICS 3-0-3

Prerequisite: MATH 3411 and either ENGR 2020 or ENGR 2202 or PHYS 3210 and either PHYS 3300 or PHYS 3400

Fluid statics; analysis of fluid motion using the continuity, momentum, and energy conservation relationships; introduction to viscous flows.

PHYS 3300 THERMODYNAMICS**3-0-3**

Prerequisite: PHYS 2212 and PHYS 2212L and MATH 3411

Thermodynamic properties, energy and mass conservation, entropy and the second law. Second-law analysis of thermodynamic systems, gas cycles, and vapor cycles.

PHYS 3312 ELECTROMAGNETISM**3-0-3**

Prerequisite: PHYS 2212 and MATH 2083

Electrostatics, magnetostatics, electromagnetism, electromagnetic waves, and applications, using both the integral form and differential form of Maxwell's equations.

PHYS 3400 CHEMICAL THERMODYNAMICS**3-0-3**

Prerequisite: CHEM 1212 and MATH 2072 and either PHYS 1112 or PHYS 2212

Continuation of CHEM 3401. Fundamentals of physical chemistry: gas laws, heat and work, and laws of thermodynamics; material and reaction equilibrium and standard thermodynamic functions; single and multi-component phase equilibria; and reaction kinetics.

PHYS 3500 DIFFRACTION AND CRYSTALLOGRAPHY**3-0-3**

Prerequisite: PHYS 3801

Diffraction and crystal structure with identification from single crystal and powder patterns. Lattice parameters and crystal orientation.

PHYS 3801 OPTICS AND MODERN PHYSICS**2-0-2**

Prerequisite: PHYS 2212 or both MATH 1161 and PHYS 1112

Optics and modern physics, including geometric and physical optics, relativity, atomic physics, and nuclear physics.

PHYS 3801L OPTICS AND MODERN PHYSICS LAB**0-3-1**

Prerequisite or corequisite: PHYS 3801

Laboratory investigation of the concepts of geometric and physical optics, relativity, atomic physics, and nuclear physics.

PHYS 3802 INTERMEDIATE MODERN PHYSICS**3-0-3**

Prerequisite: MATH 2072 and PHYS 3801

Introduction to quantum mechanical principles with applications in atomic and molecular structure.

PHYS 4120 SCIENTIFIC MEASUREMENT WITH DIGITAL INTERFACING**1-6-3**

Prerequisite: PHYS 3120 and CSCI 1301

Principles and techniques used in measuring physical quantities, including transducers, data acquisition interfaces, and data analysis. Data acquisition and process control capabilities of the computer as a general purpose lab instrument. Hands-on lab experience through applications in experimental physics. Includes a variety of oral and written assignments. Physics faculty involved in assessments.

PHYS 4170 ADVANCED MECHANICS**3-0-3**

Prerequisite: MATH 2083 and PHYS 2212 (MATH 3411 also recommended)

Mechanics of particles and systems of particles using Newtonian and Euler-Lagrangian/Hamiltonian principles.

PHYS 4900 INDEPENDENT STUDY IN PHYSICS**V-V-(1-3)**

Prerequisite: permission of instructor or department

Open to juniors or above. Research or study in physics under the supervision of a member of the physics faculty. Research activities will require the presentation of a written report. Studies of special topics will require the completion of written exams. Both the credit and the proposed work must be approved in writing by the faculty member who will supervise the work and by the department head. Open to transient students only with the permission of the department head. Offered by special arrangement.

PHYS 4950 SPECIAL TOPICS IN PHYSICS**V-V-(1-3)**

Prerequisite: announced with the topic; permission of instructor or department

Advanced study in an area of physics not covered elsewhere. Topics are chosen from all areas of physics, and will be announced when the course is offered. Offered by special arrangement.

PHYS 4960 PHYSICS INTERNSHIP**V-V-(1-10)**

Prerequisite: ENGR 2201 and PHYS 3100 and either PHYS 3300 or PHYS 3400 and permission of instructor or department

Project in industry or government to be determined, supervised, and evaluated by the sponsor of the activity and physics intern program director. Application and arrangements must be made through the department by mid-semester preceding the semester of internship. Open to transient students only with the permission of the department head. Offered by special arrangement.

PHYS 4991 ADVANCED RESEARCH IN PHYSICS**0-(3-9)-(1-3)**

Prerequisite: permission of department head and any 3000-level PHYS course

Faculty directed physics research project. Literature evaluation and lab investigation. Scientific paper and oral presentation to faculty.

POLS – Political Science**POLS 1100 POLITICAL HISTORY OF AMERICA AND GEORGIA****3-0-3**

Prerequisite: eligibility for ENGL 1101

Origins and development of constitutional theory and its political, intellectual, and cultural impact on American society from the seventeenth century to the present. Emphasis is placed on the political history of Georgia and the principles of its constitution. Crosslisted as HIST 1100.

POLS 1120 MOOT COURT DEBATE**2-0-2**

Prerequisite: Eligibility for ENGL 1101 and permission of the instructor.

Legal argumentation and decision making including writing briefs, research, and forensic skills.

POLS 1150 WORLD POLITICS**3-0-3**

Prerequisite: eligibility for ENGL 1101

Comparative political systems with emphasis on the variety of world polities. Differences in government structure, policy, and political traditions. Democratization, modernization, nationalism, the future of the nation state, the end of the Cold War, and the potential of developing nations.

**POLS 1200 ETHICAL THEORIES AND MORAL ISSUES
IN GOVERNMENT****(2-3)-0-(2-3)**

Prerequisite: eligibility for ENGL 1101

Ethics of citizenship, policy-making, and governance. Classical and modern theories of justice, with emphasis on collective goods and individual rights. Three credit option requires student research on distributive justice and public policy.

POLS 2100 INTRODUCTION TO POLITICAL SCIENCE**3-0-3**

Prerequisite: eligibility for ENGL 1101

Study of political ideologies and governmental systems that emphasize the development of the state and its functions including: constitutionalism, politics, and individual rights.

POLS 2200 INTRODUCTION TO AMERICAN GOVERNMENT**3-0-3**

Prerequisite: eligibility for ENGL 1101

Study Fundamentals of American national government including Constitution, structure and powers, checks and balances, federalism, political parties and elections, citizen participation and media.

POLS 2290 FOUNDATIONS OF INTERNATIONAL RELATIONS**3-0-3**

Prerequisite: eligibility for ENGL 1101

Relations between and among nation-states as posited in the context of diplomacy and international law. Theoretical frameworks for the analysis of selected historical and contemporary international problems and opportunities.

POLS 3160 AMERICAN JUDICIAL POLITICS AND STRATEGIES**3-0-3**

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100

A focused study of the roles played by the federal courts and judges in the American legal system, including political jurisprudence, politics of judicial selection; judicial decision making and strategies, and judicial review in a democracy.

POLS 3170 CONSTITUTIONAL LAW AND THE FEDERAL SYSTEM 3-0-3

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100

United States Supreme Court opinions on the Constitution. Emphasis on powers of the national government, judicial review, federalism, commerce power, separation of powers, power to tax and spend, and state regulation.

POLS 3180 CONSTITUTIONAL CIVIL LIBERTIES 3-0-3

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100

United States Supreme Court opinions on the Constitution. Emphasis on individual rights, nationalization, of the Bill of Rights, substantive, and procedural due process, freedom of expression, association, religion, privacy, and equal protection.

POLS 3320 AMERICAN POLITICAL THOUGHT 3-0-3

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100

Ideological traditions in American politics. Atlantic republicanism, Lockean liberalism, Jeffersonism, Jacksonian democracy, nineteenth and twentieth century reform and radical movements, pragmatism, neoconservatism, and the influence of religion on American political thought.

POLS 3340 POLITICS AND IDEOLOGY IN CONTEMPORARY EUROPE 3-0-3

Prerequisite: POLS 1150 or POLS 1200 or POLS 2100 or HIST 1111 or HIST 1112

Interaction between political institutions and ideas in contemporary Europe.

POLS 3350 CLASSICS OF POLITICAL THOUGHT 3-0-3

Prerequisite: POLS 1200 or POLS 2100 or HIST 1111 or HIST 1112 or POLS 1150

Selected texts in political theory, ancient and modern.

POLS 3360 SOCIAL THEORY 3-0-3

Prerequisites: SOCI 1101 or POLS 2100

Introduction to sociological theory from the classical to the contemporary. Major theoretical fields, theorists, and issues are covered. Cross-listed with SOCI 3360.

POLS 3980 AFRICAN AMERICANS & THE AMERICAN POLITICAL SYSTEM 3-0-3

Prerequisite: POLS 1100 or POLS 2100 or POLS 2200 or HIST 1100

Overview of African American politics in the United States from Reconstruction to present, addressing African American political development from theory to application in local, state and national political systems.

POLS 3990 SPECIAL TOPICS IN POLITICAL SCIENCE 3-0-3

Prerequisite: permission of instructor or department or POLS 2100 or POLS 2200 or POLS 1150

Topics and issues not available in other courses. May be repeated as topics vary.

POLS 4100 INDEPENDENT STUDY IN AMERICAN GOVERNMENT V-V-(1-3)

Prerequisite: permission of instructor or department, or POLS 2100

Advanced, or individualized topics on American government. Emphasis on individual research, reading, and scholarly writing.

POLS 4110 AMERICAN PRESIDENCY 3-0-3

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100

Roles of the president as head of government and head of state. Emphasis on constitutional powers, separation of powers, checks and balances, political leadership styles, election politics and media, and the function of executive power in democratic societies.

POLS 4150 AMERICAN SUPREME COURT 3-0-3

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100

Structure and functions of the Supreme Court, its use of legal reasoning, and role as policy maker.

POLS 4160 THE AMERICAN CONGRESS 3-0-3

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100

Bicameral structure and function of the national legislature. Congress as policy-maker and institution of representative government. Role of political parties in Congress.

POLS 4180 ADMINISTRATIVE LAW**3-0-3**

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100

The framework of law governing federal administrative agencies. Emphasis on judicial responsibility, enforcement, discretion, summary actions, hearings, procedural safeguards, search and seizure, due process, and civil rights.

POLS 4190 ENVIRONMENTAL LAWS AND REGULATIONS**3-0-3**

Prerequisites: POLS 2100 or POLS 2200 or LWSO 2000

An introduction to hazardous waste regulations, solid waste management programs, the Clean Air Act, OSHA regulations, the Clean Water Act, environmental audits, remediation technology, and issues relating to the impact of environmental laws on society.

POLS 4200 INDEPENDENT STUDY IN INTERNATIONAL RELATIONS**V-V-(1-3)**

Prerequisite: permission of instructor or department or POLS 1150 or POLS 2100 or POLS 2200 or POLS 2290

Open to seniors. Individual research and reading in international relations under the supervision of a member of the faculty. Primary focus on wide reading, conferences with the advisor, and written reports. Open to students with a 3.0 average in political science and at least a 2.5 GPA overall. Apply to the department by mid-semester preceding the semester independent study is contemplated. Open to transient students only with permission of the department head. Must have at least 12 semester hours in political science at the 3000+ level.

POLS 4300 RELIGION AND POLITICAL THOUGHT**3-0-3**

Prerequisite: POLS 2100 or permission of instructor

Religious traditions of Judaism, Christianity, and Islam as sources of political ideas.

POLS 4400 INDEPENDENT STUDY IN COMPARATIVE GOVERNMENT**3-0-3**

Prerequisite: permission of instructor or department or POLS 1150 or POLS 2290

Open to juniors or above. Individual research and reading in comparative government under the supervision of a member of the faculty. Primary focus on wide reading, conferences with the advisor and written reports. Open to students with a minimum of 90 semester hours, including 12 semester hours in political science at the 3000 level or above; must have a 3.0 average in political science or a 2.5 overall GPA. Apply to department by the mid-semester preceding the semester independent study is contemplated. Open to transient students only with permission of the department head.

POLS 4620, -30, -40 INTERNSHIP**V-V-3**

Prerequisite: permission of instructor or department

Open only to juniors or above. Field experience in government, public service or applied politics. Graded on an satisfactory/unsatisfactory (S/U) basis.

POLS 4650 PRACTICUM**V-V-3**

Prerequisite: permission of instructor or department

Open only to juniors or above. Student will pursue a research topic along with his/her field experience in government, public service or applied politics. Research paper or portfolio required.

POLS 4950 POLITICAL RESEARCH METHODS**3-0-3**

Prerequisite: a grade of C or better in Math 2200

Open to juniors and seniors. Methods and techniques of research in the social sciences especially oriented to the needs of the political science major. Emphasis on evaluating research.

POLS 5100U POLITICS AND THE VISUAL ARTS**3-0-3**Prerequisite: POLS 1100 or HIST 1100 or POLS 1200 or POLS 1150 or HIST 1111 or HIST 1112
Uses of visual media and representation to convey political meanings and messages.**POLS 5130U POLITICAL TERRORISM****3-0-3**

Prerequisite: CRJU 1100 or HIST 1100 or POLS 1100 or POLS 1150

International and domestic terrorism undertaken for political purposes in liberal states. Primary focus on state-sponsored international terrorism, American domestic revolutionary terrorism, and the dilemmas of counterterrorism in a democracy. Crosslisted as CRJU 5130U.

POLS 5210U INTERNATIONAL LAW**3-0-3**

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100 or POLS 1150

International agreements, cases, and customs on the legal relationships between nations. Emphasis on recognition, state succession, jurisdiction, extradition, nationality, treaties, diplomacy, and war.

POLS 5220U THEORY OF INTERNATIONAL RELATIONS**3-0-3**

Prerequisite: POLS 1100 or POLS 1150 or POLS 2100 or POLS 2200 or POLS 2290 or HIST 1100

Relations among nations with emphasis on political realism vs. idealism in international politics, causes of war, and conflict resolution methods. Covers some of the pertinent global issues of the post-Cold War Era; e.g. nuclear proliferation, multinational corporations, environmental and public health, and human rights protection issues.

POLS 5230U CONSTITUTIONAL LAW OF FOREIGN POLICY**3-0-3**

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100

An exploration of the narrow intersection of American constitutional law and foreign policy, powers of the executive and legislative in foreign policy, and issues such as the war, treaty, and spending powers.

POLS 5250U INTERNATIONAL ORGANIZATIONS**3-0-3**

Prerequisite: POLS 1100 or POLS 1150 or POLS 2100 or POLS 2200 or POLS 2290 or HIST 1100

Survey of formal international organizations, treaty organizations, regional organizations, trade and development organizations, and international non-governmental organizations with emphasis upon the role of these institutions in the maintenance of peace, trade, and security.

POLS 5260U MEDIA AND POLITICS IN LATIN AMERICA**3-0-3**

Prerequisite: POLS 1100 or POLS 1150 or POLS 2100 or POLS 2200 or POLS 2290 or HIST 1100

Examination of the role of the media in the political process of Latin America, and the media portrayal of political events in Latin America.

POLS 5270U INTELLIGENCE AND NATIONAL SECURITY POLICY**3-0-3**

Prerequisite: HIST/POLS 1100 or POLS 2100 or POLS 1150

An examination of the roles played by the president, the National Security Council, the Cabinet Departments of State, Defense, and Homeland Security, and the intelligence community in the national security/defense policy-making process.

POLS 5280U SEMINAR IN GLOBAL POLITICS**3-0-3**

Prerequisite: POLS 1100 or POLS 2100 or POLS 2200 or POLS 1150 or POLS 2290 or HIST 1100

Political structures and leadership strategies in a postmodern world. Topics will include issues covering the European Union, political transitions in the Middle East and Africa, Latin America, and Southeast Asia.

POLS 5290U AMERICAN FOREIGN POLICY**3-0-3**

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100

Analysis of United States foreign policy and factors, both domestic and global, contributing to its formulation.

POLS 5420U POLITICS OF THE MIDDLE EAST**3-0-3**

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100 or POLS 1150

A descriptive look at and comparison of the governments of the 24 nation-states that comprise the area generally referred to as the Middle East.

POLS 5430U GOVERNMENTS OF AFRICA**3-0-3**

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100 or POLS 1150 or POLS 2290 or POLS 2200

Political institutions and governments of Africa and the African Union, ethnic conflict and state disintegration, democratization and post-colonial political economy, post-Apartheid South Africa, public health and environmental issues of the continent.

POLS 5440U LATIN AMERICAN POLITICS**3-0-3**

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100 or POLS 1150 or POLS 2200 or POLS 2290

Examination of cultural traditions, economic institutions and problems, efforts to strengthen and deepen the recent transitions to democracy, and civil-military relations in post-authorization Latin America.

POLS 5450U POLITICAL SOCIOLOGY OF NATIONALISM**3-0-3**

Prerequisite: POLS 2100 or SOCI 1101

Various theories of nationalism and their social, historical, economic, and cultural contexts. Cultural, ethnic, and national identity and conflict are the focus. Ethnic, religious, civic, economic, and anti-colonial nationalism are examined in a global perspective.

POLS 5460U GOVERNMENTS OF EAST ASIA**3-0-3**

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100 or POLS 1150 or POLS 2200 or POLS 2290
Comparative examination of the contemporary political institutions, processes, and ideas of the Peoples Republic of China, Japan, and two Koreas. Emphasis on historical, social, cultural, and contemporary issues.

POLS 5490U POLITICAL TRANSFORMATION OF THE FORMER SOVIET UNION**3-0-3**

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100 or POLS 1150 or POLS 2290 or POLS 2200
Political change in the former Soviet Union with emphasis on the new direction of the political, economic and social transformation of the regime. Comparison of tsarist autocracy, Soviet totalitarianism, and the contemporary Russian political system.

POLS 5500U LAW AND LEGAL PROCESS**3-0-3**

Prerequisite: HIST 1100 or POLS 2100 or POLS 1100 or CRJU 1100 or POLS 2200 or POLS 1150 or POLS 2290

Law as a dynamic societal institution. Sources and functions of both civil and criminal law and operation of the legal process viewed from the perspectives of jurisprudence, political science, and sociology. Crosslisted as CRJU 5500U.

POLS 5510U THIRD WORLD NATIONAL SECURITY**3-0-3**

Prerequisite: POLS 2100 or HIST 1100 or POLS 1100 or POLS 1150 or POLS 2200 or POLS 2290
Examination of the role, behavior and perspective of Third World nations in the international system, including ethnic conflicts, war, and their search for stability within a chaotic world.

POLS 5520U COMPARATIVE JUDICIAL SYSTEMS**3-0-3**

Prerequisite: CRJU 1100 or HIST 1100 or POLS 1100 or POLS 1150

Law enforcement and judicial procedure in political systems of Great Britain, France, Russia, and Japan. Crosslisted as CRJU 5520U.

POLS 5530U GLOBAL ENVIRONMENTAL POLITICS**3-0-3**

Prerequisites: POLS 1150 or POLS 2290 or POLS 2100 or POLS 2200 or HIST 1100 or POLS 1100
Introduction to the politics of environmental issues from local, national, and international perspectives including public perception, competing ideologies, the nature of the political process, the courts, the media, and political institutions.

POLS 5535U PUBLIC LEADERSHIP AND ETHICS IN THEORY AND PRACTICE**3-0-3**

Prerequisite: POLS 1150 and/or POLS 2100

Classic and modern readings in moral and political philosophy. Emphasis on relationship of ethical ideals to specific leadership contexts and problems, including concepts of social justice, merit, individual liberty, freedom of expression, privacy, responsibility, and utility.

POLS 5560U COMPARATIVE FOREIGN POLICY**3-0-3**

Prerequisite: POLS 2100 or POLS 2200 or HIST 1100 or POLS 1150 or POLS 2290 or POLS 1100
Examination of various theories of state type and foreign policy behavior and evaluation of such theories in foreign policy analysis.

PSYC–Psychology**PSYC 1101 INTRODUCTION TO PSYCHOLOGY****3-0-3**

Prerequisite: eligibility for ENGL 1101

Introduction to the vocabulary, concepts, and methods of the science of behavior and mental processes, surveying all areas of psychology.

PSYC 1101H HONORS INTRODUCTION TO PSYCHOLOGY 3-0-3

Prerequisite: acceptance in honors program

Course content similar to PSYC1101, but emphasis on psychology as a laboratory science. Students will have significant class participation responsibilities.

PSYC 2000 ETHICS AND VALUES IN PSYCHOLOGY 3-0-3

Prerequisite or Co-requisite: ENGL 1101

Selected issues in ethics and values considered from a psychological perspective. Topics discussed may include ethical issues encountered in psychological research and practice.

PSYC 2190 – CAREERS AND PROFESSIONAL SKILLS IN PSYCHOLOGY 3-0-3

Prerequisite: PSYC 1101

Overview of the employment opportunities and introduction to professional skills.

PSYC 2200 INTRODUCTION TO PSYCHOLOGICAL RESEARCH 3-0-3

Prerequisite: PSYC 1101 and MATH 2200 with a grade of C or better

Prerequisite or Corequisite: PSYC 2190

An introduction to scientific methodology and its application to behavior analysis, with emphasis on data collection methods and statistical techniques including, but not limited to, correlation, factorial ANOVA, and nonparametric procedures. Students are required to perform statistical analyses using SPSS statistical programs, conduct an original psychological investigation, and write an APA style report of the research.

PSYC 2300 GLOBAL PERSPECTIVES IN DEVELOPMENTAL PSYCHOLOGY 3-0-3

Prerequisite: eligibility for ENGL 1101

Exploration of physical, cognitive, and social development from a multicultural viewpoint. Emphasis on cross-cultural research applied to human development across the lifespan.

PSYC 2950 LIFESPAN DEVELOPMENTAL PSYCHOLOGY 3-0-3

Prerequisite: PSYC 1101

Examination of basic principles of human psychological development from conception through old age as these relate to biological, cognitive, and social development. Not designed for psychology majors.

PSYC 3000 – HUMAN RESOURCE DEVELOPMENT SKILLS 3 – 0 – 3

Prerequisite: PSYC 1101

Introduction to theoretical and applied intervention principles of human resources development for public and private settings. In the B.S. degree it counts as an elective only.

PSYC 3020 PSYCHOLOGICAL TESTING 3-0-3

Prerequisite: PSYC 1101

Individual and group tests in psychological, educational, and clinical settings. Focus on the theoretical and statistical principles that underlie psychological and educational measurement and standardized psychological instruments, and ethical issues in psychological testing.

PSYC 3030 EXPERIMENTAL SOCIAL PSYCHOLOGY 3-0-3

Prerequisite: PSYC 1101

Behavior of others as determinants of the behavior of the individual, identifying factors that shape feelings, behavior, and thoughts in social situations.

PSYC 3050 CHILD PSYCHOLOGY 3-0-3

Prerequisite: PSYC 1101

Examination of psychological theories, research, and application of psychology of the child from conception through adolescence. Surveys recent literature within the areas of perpetual, biological, cognitive, and social/emotional development.

PSYC 3070 PERCEPTION 3-0-3

Prerequisite: PSYC 1101

Experimental and theoretical analysis of the nature of perceptual processes.

PSYC 3080 EVOLUTION AND BEHAVIORAL SCIENCE 3-0-3

Prerequisite: PSYC 1101 or 1101H, BIOL 1107, and BIOL 1108

An examination of the role of evolutionary theory in the development of modern behavioral science.

PSYC 3090 PHYSIOLOGICAL PSYCHOLOGY 3-0-3

Prerequisite: PSYC 1101, BIOL 1107 and BIOL 1108 each with a grade of C or better

Structure and function of the nervous system and its relationship to behavior.

PSYC 3100 PSYCHOLOGY OF HUMAN SEXUALITY 3-0-3

Prerequisite: PSYC 1101

An examination of the developmental, physiological, clinical, and social aspects of human sexuality. Emphasis on the various components of human sexuality from a developmental perspective.

PSYC 3110 THEORIES OF PERSONALITY 3-0-3

Prerequisite: PSYC 1101

Selected personality theories with emphasis on normal behavior with attention to both experimental and clinical data. Determinants of personality structure and the development of personality from divergent points of view.

PSYC 3160 CLINICAL PSYCHOLOGY 3-0-3

Prerequisite: PSYC 1101

Behavioral problems, treatment modes, and theories.

PSYC 3190 ANIMAL BEHAVIOR 3-0-3

Prerequisite: PSYC 1101

Adaptations and behaviors with which living organisms cope with their environments viewed from mechanistic, developmental, and evolutionary perspectives.

PSYC 3280 ABNORMAL PSYCHOLOGY 3-0-3

Prerequisite: PSYC 1101

Scientific and cultural bases of various conceptions of undesirable behavior, emphasizing application of principles derived from basic research.

PSYC 3400 - INTRODUCTION TO LEARNING 3-0-3

Prerequisite: PSYC 1101

Introduction to the variables and processes responsible for conditioning and learning in humans and non humans. Application of principles and real-world examples.

PSYC 3500 COGNITIVE PSYCHOLOGY 3-0-3

Prerequisite: PSYC 1101

Issues related to the various models of human information processing with an emphasis on perceptual and linguistic development, including principles and applications derived from basic research.

PSYC 3800 HEALTH PSYCHOLOGY 3-0-3

Prerequisite: PSYC 1101

Examination of biological, psychological, and social factors that interact with and affect health and illness. Topics discussed may include but are not limited to the psychophysiology of stress and pain and recovery, rehabilitation, and psychosocial adjustment of individuals with health problems.

PSYC 3900 THE PSYCHOLOGY OF THE SELF 3-0-3

Prerequisite: PSYC 1101

History of the concept of the self, and the use of current psychological theory and research to understand and explain the constructs of self-concept and self-esteem.

PSYC 3950 RESEARCH IN PSYCHOLOGY V-V-(1-6)

Prerequisite: junior standing, permission of department head, and agreement by a faculty member to supervise the research.

Uncompensated research to be assigned and directed by a faculty member of the Department of Psychology. Students will conduct research which may include a literature search, field or laboratory observation and experimentation, data reduction and analysis, and written and/or oral presentation of results. The research experience will be evaluated by a rotating committee of the departmental

faculty before the initiation of the project, and again upon completion of the work. Credit will vary depending on the work to be completed. Course may be repeated up to a total of six (6) credit hours.

PSYC 4000 MEASUREMENT 3-0-3

Prerequisite: PSYC 1101 and PSYC 2200

Examination of the theory of measurement, reliability and validity techniques, test construction, and statistical analysis.

PSYC 4001 - MEASUREMENT LABORATORY 0-1-1

Corequisite: PSYC 4000

Develop and validate an original psychological measure. Student research project required.

PSYC 4080 LEARNING AND MOTIVATION 3-1-4

Prerequisite: PSYC 1101 and PSYC 2200

Methodology and theory associated with the various forms of learning and their motivational concomitants. Laboratory introduction to animal care, training, and experimentation. Student research project required.

PSYC 4100 HISTORY AND SYSTEMS OF PSYCHOLOGY 3-0-3

Prerequisite: PSYC 1101 and ANTH 1102 with a grade of C or better and either senior standing or permission of instructor

Topics covered include early animism, Cartesian dualism, British associationism, Darwinian adaptation, consciousness, the unconscious, various behaviorisms, and cognitive science. Special attention is given to the influence of philosophy in the history of psychology.

PSYC 4120 SENIOR PROJECT 3-0-3

Prerequisite: PSYC 1101 and permission of supervising instructor

Open only to seniors. Project with a faculty member qualified in the student's area of interest to begin in the first semester of the senior year (register for the semester of expected completion). Scholarly paper acceptable to the departmental faculty required.

PSYC 4130 SENIOR INTERNSHIP 3-0-3

Prerequisite: PSYC 1101 and permission of supervising instructor

Open only to seniors. Individually designed work experience in an applied setting with the sponsoring organization providing a qualified supervisor. Faculty advisor will establish performance criteria and evaluate accordingly. Scholarly paper or project to be judged by department faculty required.

PSYC 4140 CLASSROOM LEADERSHIP PRACTICUM 3-0-3

Prerequisite: PSYC 1101, a grade of A in the course for which the student will serve as a student leader, permission of supervising instructor, and approval of department head

Focuses on the scholarship of teaching psychology. Student provides academic support and mentoring. The course instructor will establish responsibilities and performance criteria, which may include, but are not limited to, mentoring, leading or co-leading class discussions, planning and delivering course presentations under supervision, and assisting with the development of class and out-of-class activities. Scholarly paper that integrates the literature on the teaching of psychology with actual experience is required.

PSYC 5010U, -20U, SPECIAL TOPICS IN PSYCHOLOGY 3-0-3

Prerequisite: PSYC 1101

Upper-level courses not otherwise offered in the psychology curriculum. Various substantive topics, theoretical issues and problems. Possibility to repeat with different topics. No more than two such courses counted in the minor. Special topics courses may satisfy sections II-V of the major course requirements at the discretion of the department head.

PSYC 5060U BASIC BEHAVIOR PRINCIPLES AND BEHAVIOR MODIFICATION 3-0-3

Prerequisite: PSYC 1101

Basic principles underlying behavior change, with particular focus on the acquisition and maintenance of desirable behaviors and the reduction or elimination of undesirable behaviors.

PSYC 5061U ADVANCED BEHAVIORAL ASSESSMENT 3-0-3

Prerequisite: PSYC 5060U

Methods of observing and measuring human behavior; collecting, analyzing, summarizing, and presenting behavioral data; and verifying outcomes experimentally. Includes examination of single-subject experimental designs, the ethics of behavioral assessment, and a practicum experience.

PSYC 5062U ADVANCED BEHAVIOR CHANGE TECHNIQUES 3-0-3

Prerequisite: PSYC 5061U

Seminar in which students design, implement, and evaluate behavior change programs. Includes a comprehensive survey of recent literature on applied behavior analysis in clinical, educational, vocational, and social settings and examination of ethical issues surrounding behavior change programs.

PSYC 5150U CONFLICT RESOLUTION 3-0-3

Prerequisite: PSYC 1101

Social processes of conflict between parties (individuals or groups) and techniques for collaborative resolutions, with special emphasis on mediation processes.

PSYC 5200U INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 3-0-3

Prerequisite: PSYC 1101

Applications of psychological principles to business and professional settings, including power politics, leadership, organization development, job analysis, performance appraisal, and employee selection.

PSYC 5300U LEADERSHIP AND GROUP DYNAMICS 3-0-3

Prerequisite: PSYC 1101

Exploration of the social psychological approach to leadership development and the role of the leader in influencing group dynamics. Emphasis on the application of research findings in social psychology to the development of leadership skills.

PUBH—Public Health**PUBH 5550U NUTRITION 3-0-3**

Basic concepts of nutrition as major component to the enhancement of health.

PUBH 5555U HEALTH AND HUMAN PERFORMANCE 3-0-3

Effects of physical activity on health enhancement and maintenance. Bioenergetics, physical assessment methods, equipment, and exercise prescription.

PUBH 5560U INTRODUCTION TO INTERNATIONAL HEALTH 3-0-3

Introduction of the application of public health and its relationship to other health disciplines in the field of international health.

PUBH 5565U STRATEGIES FOR THE PREVENTION OF CHEMICAL DEPENDENCY 3-0-3

Educational strategies and techniques related to prevention of chemical dependency.

PUBH 5570U WOMEN AND MINORITY HEALTH ISSUES 3-0-3

The exploration of contemporary public health issues concerning women and minorities.

PUBH 5575U HEALTH AND SEXUALITY 3-0-3

Investigation of human sexuality and its effects on health.

PUBH 5580U HEALTH AND HUMAN DEVELOPMENT 3-0-3

Lifestyle and socio-political factors related to optimum health per age and grouping emphasized.

PUBH 5585U – EPIDEMIC DISEASE: SOCIAL, HISTORICAL AND ETHICAL PERSPECTIVES 3-0-3

Examines the effects of epidemic disease on human societies from the ancient period to the present, and on future scenarios.

PUBH 5600U HEALTHY WEIGHT MGMT & BODY COMP**3-0-3**

A survey of research and applications for methods of improving body composition with a focus on optimal health and physical performance. Students will investigate effective strategies for long-term changes in body fatness and lean body mass.

PUBH 5800U EPIDEMIOLOGY OF CANCER**3-0-3**

This course will examine the epidemiology of cancer in contemporary populations.

RADS – Radiologic Sciences**RADS 3000 INTRODUCTION TO RADIOLOGIC SCIENCES****2-1-2**

Open only to majors in radiologic sciences. Professional organizations, specialties, accreditation, certification, licensure, professional development, ethics legal issues, radiation protection methodology, and elementary imaging concepts.

RADS 3050 PATIENT CARE AND INTERACTION**3-2-3**

Open only to majors in radiologic sciences. Physical and psychological needs of the family and patient, patient transfer techniques, interaction with the terminally ill, vital signs, administration of injections and pharmaceuticals, IV and tube maintenance, urinary catheterization, administration and interpretation of EKG's, emergency medical situations, infectious disease processes and universal precautions. CPR certification required.

RADS 3060 PRINCIPLES OF IMAGE FORMATION AND EVALUATION**2-2-3**

Open only to majors in radiologic sciences. Factors controlling radiographic production and image quality for both film-based and digital-based systems. Topics include geometric and photographic properties, image quality evaluation, digital detector systems, preprocessing and post processing of digital images, image compression, image transmission, and image display.

RADS 3071 IMAGING AND RADIATION PROCEDURES I**3-2-3**

Open only to majors in radiologic sciences. Procedures involving the chest, abdomen, and visceral organs requiring the use of contrast media, including spatial relationships and pathology. Emphasis on equipment manipulation and quality evaluation of radiographic examinations.

RADS 3072 IMAGING AND RADIATION PROCEDURES II**3-2-3**

Prerequisite: RADS 3071

Procedures involving extremities, shoulder girdle, and vertebral column including chest and abdomen, visceral organs requiring the use of contrast media, spatial relationships, pathology, equipment manipulation, quality evaluation and medical terminology.

RADS 3073 IMAGING AND RADIATION PROCEDURES III**3-2-3**

Prerequisite: RADS 3072

Procedures involving bony thorax, pelvic girdle, facial bones, cranium, heart, breast, and reproductive organs. Includes the chest, abdomen, and visceral organs requiring the use of contrast media, including spatial relationships and pathology. Emphasis on equipment manipulation and quality evaluation of radiographic examinations.

RADS 3090 INTRODUCTION TO RADIATION PHYSICS**3-1-3**

Prerequisite: MATH 1111 and RADS 3000

Mechanics, electromagnetic physics and nuclear physics as they relate to the medical setting.

RADS 3100: MEDICAL COMMUNICATION SKILLS (1-1-1)

Prerequisite: ENGL 1101 and permission of instructor or department.

Open only to majors in radiologic sciences. Content is designed to expand the knowledge base and skills necessary for the practitioner to communicate effectively.

RADS 3150 RADIOBIOLOGY AND RADIATION PROTECTION**3-1-3**

Prerequisite: RADS 3000

Biological, chemical, and physical effects of radiation. Emphasis on radiation measurement and exposure reduction to minimize somatic and genetic effects. Performance of radiation surveys and radiobiologic research.

RADS 3161 RADIOGRAPHY CLINICAL EDUCATION I 0-20-3

Prerequisite: permission of instructor or department
Prerequisite or corequisite: RADS 3050 and RADS 3060 and RADS 3071
Supervised clinical practice in performing radiographic procedures.

RADS 3162 RADIOGRAPHY CLINICAL EDUCATION II 0-20-3

Prerequisite: permission of instructor or department
Prerequisite or corequisite: RADS 3072 and RADS 3161
Supervised clinical practice in performing radiographic procedures.

RADS 3190 PRINCIPLES OF RADIATION THERAPY 3-0-3

Prerequisite: permission of instructor or department and RADS 3000
An introduction to the history and practice of radiation therapy with an emphasis on patient care, radiation protection, treatment preparation, and treatment delivery.

RADS 3200 IMAGING PATHOLOGY 3-0-3

Prerequisite: BIOL 2082 and RADS 3000 or permission of instructor or department.
A survey of human pathology as demonstrated by radiologic imaging. Includes ultrasound, CT, MRI, nuclear medicine, and radiographic images of cancer, vascular diseases, trauma, anomalies and other disease processes.

RADS 3301 RADIATION THERAPY CLINICAL EDUCATION I 0-20-2

Prerequisite: permission of instructor or department and formal admission to the radiation therapy track
A supervised clinical experience in the application and delivery of radiation therapy.

RADS 3302 RADIATION THERAPY CLINICAL EDUCATION II 0-20-2

Prerequisite: permission of instructor or department and RADS 3301
A supervised clinical experience in the application and delivery of radiation therapy.

RADS 3450 LEADERSHIP IN HEALTHCARE 2-0-2

Prerequisite: ENGL 1101 and permission of instructor or department.
This course introduces leadership concepts, focusing on the contemporary theories of leadership. Instructional areas include servant leadership, moral roots of responsible leadership, and effectiveness. A course component will include a leadership service learning practicum.

RADS 3451 LEADERSHIP PRACTICUM 0-1-1

Prerequisite or Corequisite: RADS 3450
Application of theoretical leadership concepts.

RADS 3501 PRINCIPLES AND PRACTICE OF NUCLEAR MEDICINE I 4-1-4

Prerequisite or Corequisite: Formal admission to the Nuclear Medicine track.
Introduction to the theory and principles of Nuclear Medicine. Basic principles involved in imaging, diagnoses, and therapies are emphasized.

RADS 3502 PRINCIPLES AND PRACTICE OF NUCLEAR MEDICINE II 4-1-4

Prerequisite: RADS 3501
Advanced theory of imaging technologies, diagnostic and therapeutic testing. Topics include non-imaging in-vivo and in-vitro procedures and radionuclide therapy.

RADS 3503 PRINCIPLES AND PRACTICE OF NUCLEAR MEDICINE III 4-1-4

Prerequisite: RADS 3502
Advanced theory of imaging technologies in nuclear medicine.

RADS 3520 RADIOPHARMACY AND RADIOCHEMISTRY 3-1-3

Prerequisite: RADS 3501
Radionuclide production, mechanisms of radionuclide localization, preparation and use of radiopharmaceuticals, quality control of radiopharmaceuticals, and governmental regulations.

RADS 3531 NUCLEAR MEDICINE CLINICAL EDUCATION I	0-20-2
Prerequisite or Corequisite: RADS 3502 Supervised clinical practice in performing nuclear medicine procedures.	
RADS 3532 NUCLEAR MEDICINE CLINICAL EDUCATION II	0-20-2
Prerequisite: RADS 3531 Supervised clinical practice in performing nuclear medicine procedures.	
RADS 3601 SONOGRAPHIC THEORY I	3-2-4
Prerequisite or corequisite: Formal admission to the Sonography track or permission of instructor or department. Theoretical sonographic concepts of abdominal, gynecological, and obstetrical procedures.	
RADS 3602 SONOGRAPHIC THEORY II	3-2-4
Prerequisite: RADS 3601 Continuation of Sonographic Theory I. Includes invasive procedures and advanced scanning techniques.	
RADS 3603 SONOGRAPHIC THEORY III	3-2-4
Prerequisite: RADS 3602 Continuation of Sonographic Theory II.	
RADS 3631 SONOGRAPHY CLINICAL EDUCATION I	0-20-2
Prerequisite or Corequisite: RADS 3601, RADS 3050, and RADS 3071. Supervised clinical practice in performing Sonographic procedures.	
RADS 3632 SONOGRAPHY CLINICAL EDUCATION II	0-20-3
Prerequisite: RADS 3631 and RADS 3602. Supervised clinical practice in performing Sonographic procedures.	
RADS 3750 ADVANCED PATIENT CARE	3-1-3
Prerequisite: RADS 3050, 3761 Indications and contraindications for diagnostic and therapeutic cardiovascular procedures and an analysis of treatment modalities.	
RADS 3651 SONOGRAPHIC PHYSICS I	3-0-3
Prerequisite: PHSC 1211/1211L or PHYS 1111/1111L or permission of instructor or department. An introduction to ultrasound propagation principles and interactions.	
RADS 3652 SONOGRAPHIC PHYSICS II	3-0-3
Prerequisite: RADS 3651 Continuation of RADS 3651 to include Doppler physics.	
RADS 3761 CARDIOVASCULAR CLINICAL EDUCATION I	0-20-2
Prerequisite or corequisite: RADS 3772. An introduction to cardiovascular diagnosis and treatment in the clinical environment. Clinical practice areas will include endovascular diagnostics, cardiac diagnostics, cardiac or vascular interventional procedures, and electrophysiological studies.	
RADS 3762 CARDIOVASCULAR CLINICAL EDUCATION II	0-20-2
Prerequisite: RADS 3761 Supervised clinical experience in cardiovascular/interventional procedures.	
RADS 3771 INTRODUCTION TO CARDIOVASCULAR TECHNOLOGY	3-0-3
Prerequisite: Formal admission to the cardiovascular/interventional track. An introduction to the concepts and techniques involved in the diagnosis and treatment of cardiac and vascular disease.	

RADS 3772 CARDIOVASCULAR IMAGING AND EQUIPMENT 3-0-3

Prerequisite: RADS 3771

The operation and clinical application of equipment, devices, and technology utilized in the diagnosis and treatment of cardiac and vascular disease.

RADS 4050 QUALITY MANAGEMENT IN RADIOGRAPHY 2-2-2

Prerequisite: RADS 3090

Equipment testing, analysis of quality control data and quality assurance data, federal government guidelines and introduction to total quality management concepts and procedures.

RADS 4090 RADIOGRAPHIC PHYSICS 3-1-3

Prerequisite: RADS 3090

Study of radiographic equipment and the physics of specialized imaging modalities.

RADS 4111 ADVANCED IMAGING IN MRI 3-0-3

Prerequisite: permission of instructor or department and RADS 3090

Instrumentation, operation, and clinical uses of magnetic resonance imaging.

RADS 4112 ADVANCED IMAGING IN CT 3-0-3

Prerequisite: permission of instructor or department and RADS 3090

Instrumentation, operation, and clinical uses of computed tomography.

RADS 4113 ADVANCED IMAGING IN MAMMOGRAPHY 3-0-3

Prerequisite: permission of instructor or department and RADS 4090

Instrumentation, operation, and clinical uses of mammography.

RADS 4114 ADVANCED IMAGING IN CVIT 3-0-3

Prerequisite: permission of instructor or department and RADS 4090 or RADS 3652.

Instrumentation, operation, and clinical uses of cardiovascular interventional radiology.

RADS 4163 RADIOGRAPHY CLINICAL EDUCATION III 0-V-(1-3)

Prerequisite: permission of instructor or department and RADS 3162

Supervised clinical practice in performing radiographic procedures.

RADS 4163S RADIOGRAPHY SYNTHESIS SEMINAR 0-3-1

Prerequisite: RADS 3060, RADS 3073, RADS 3150, and RADS 4090

Prerequisite or Corequisite: RADS 4163

Discussion of theoretical concepts of radiography as they relate to practice.

RADS 4164 RADIOGRAPHY CLINICAL EDUCATION IV 0-V-(1-3)

Prerequisite: permission of instructor or department

Prerequisite or corequisite: RADS 4163

Supervised clinical practice in performing radiographic procedures.

RADS 4171 MAGNETIC RESONANCE CLINICAL EDUCATION 0-20-3

Prerequisite or Corequisite: RADS 4111 or permission of instructor.

Supervised clinical practice in performing magnetic resonance imaging procedures.

RADS 4172 COMPUTED TOMOGRAPHY CLINICAL EDUCATION 0-20-3

Prerequisite or Corequisite: RADS 4112 or permission of instructor.

Supervised clinical practice in performing computed tomography procedures.

RADS 4173 MAMMOGRAPHY CLINICAL EDUCATION 0-20-3

Prerequisite or Corequisite: RADS 4113 or permission of instructor.

Supervised clinical practice in performing mammography procedures.

RADS 4174 CARDIOVASCULAR INTERVENTIONAL CLINICAL EDUCATION 0-20-3

Prerequisite or Corequisite: RADS 4114 or permission of instructor.

Supervised clinical practice in performing cardiovascular interventional procedures.

RADS 4175 ADVANCED CLINICAL EDUCATION 0-V-(1-6)

Prerequisite: permission of instructor or department head

A clinical experience in the advanced area of magnetic resonance imaging, computerized tomography, mammography, or cardiovascular interventional radiology.

RADS 4176 SPECIALIZED CLINICAL EDUCATION 0-V-(1-6)

Prerequisite or Corequisite: RADS 4175 or permission of instructor.

Supervised clinical practice in performing specialized imaging procedures.

RADS 4201 RADIATION ONCOLOGY I 3-0-3

Prerequisite: permission of instructor or department

Prerequisite or corequisite: RADS 3190

An introduction to carcinogenesis and treatment of neoplasia. Emphasis is placed upon neoplastic diseases occurring in the respiratory and gastrointestinal systems.

RADS 4202 RADIATION ONCOLOGY II 3-0-3

Prerequisite: RADS 4201

A study of neoplastic disease and treatment interventions related to the reproductive, head and neck, breast, lymphoreticular, skeletal, integumentary, endocrine, and central nervous systems.

RADS 4240 RADIATION THERAPY PHYSICS 3-1-3

Prerequisite: permission of instructor or department and RADS 3090

A detailed analysis of radiation production, nuclear transformations, and interactions with matter. Discussions regarding radiation detectors, instrumentation, dose absorption, dose distribution, and biological effects are included.

RADS 4260 TREATMENT PLANNING 3-3-3

Prerequisite: permission of instructor or department

Prerequisite or corequisite: RADS 4240

A study of principles used to plan and deliver radiation treatments. Discussions regarding isodose distributions, contouring, beam filtration, planning protocols, brachytherapy, and emerging technologies are included.

RADS 4280 QUALITY MANAGEMENT IN RADIATION THERAPY 1-0-1

Prerequisite: permission of instructor or department, RADS 4240

An examination of quality management principles used to ensure safe and efficient treatment delivery. Regulatory agencies, equipment safety, testing procedures, records, and billing management are discussed.

RADS 4303 RADIATION THERAPY CLINICAL EDUCATION III 0-20-3

Prerequisite: permission of instructor or department and RADS 3302

Supervised clinical experience in the application and delivery of radiation therapy.

RADS 4304 RADIATION THERAPY CLINICAL EDUCATION IV 0-20-3

Prerequisite: permission of instructor or department and RADS 4303

Supervised clinical experience in the application and delivery of radiation therapy.

RADS 4304S RADIATION THERAPY SYNTHESIS SEMINAR 0-3-1

Corequisite: RADS 4304 or permission of instructor

Discussion of theoretical concepts of radiation therapy as they relate to practice.

RADS 4305 RADIATION THERAPY CLINICAL EDUCATION V 0-20-3

Prerequisite: permission of instructor or department and RADS 4304

Capstone clinical education course in the application and delivery of radiation therapy.

RADS 4305S RADIATION THERAPY SEMINAR 0-3-1

Prerequisite or corequisite: RADS 4305

Discussion of theoretical concepts of radiation therapy.

RADS 4410 CROSS-SECTIONAL ANATOMY 3-0-3

Prerequisite: permission of instructor or department

Open only to majors in radiologic sciences. Three-dimensional anatomical relationships of cross-sectional anatomy slices and images produced by computer tomography and magnetic resonance imaging.

RADS 4420 SENIOR RADIOGRAPHY SEMINAR 0-3-1

Prerequisite: RADS 4163S/4163S and RADS 4050

Prerequisite or Corequisite: RADS 4164

Discussion of theoretical concepts of radiography.

RADS 4430 PROFESSIONAL PRACTICE SEMINAR 3-0-3

Prerequisite: permission of instructor or department

Open only to majors in radiologic sciences. Capstone course on major trends and issues affecting present day radiation and imaging sciences practitioners.

RADS 4440H THESIS IN RADIOLOGIC SCIENCES 0-3-3

Prerequisite: admission to honors program

Open only to majors in radiologic sciences. A research project under the supervision of a radiologic sciences faculty committee. The project must include a thesis and oral presentation. This course will substitute for RADS 4430.

RADS 4450 RADIOLOGY MANAGEMENT AND LEADERSHIP 3-0-3

Prerequisite: permission of instructor or department

Open only to majors in radiologic sciences. Management, leadership, health care financing, and total quality concepts specific to the radiation sciences.

RADS 4451 MANAGEMENT PRACTICUM V-V-3

Prerequisite: RADS 4450 or permission of instructor.

Practical off-campus experience in the area of healthcare management.

RADS 4540 NUCLEAR MEDICINE PHYSICS AND INSTRUMENTATION 3-2-4

Prerequisite: RADS 3090

Decay modes, half-life, radiation interactions, radiation measurement and the principles of radiation detection equipment and instrumentation as applied to nuclear medicine imaging. Topics include detection systems, QC/QA, collimation, tomography, and computer applications.

RADS 4533 NUCLEAR MEDICINE CLINICAL EDUCATION III 0-20-2

Prerequisite: RADS 3532

Supervised clinical practice in performing nuclear medicine procedures.

RADS 4534 NUCLEAR MEDICINE CLINICAL EDUCATION IV 0-20-2

Prerequisite: RADS 4533

Supervised clinical practice in performing nuclear medicine procedures.

RADS 4535 NUCLEAR MEDICINE CLINICAL EDUCATION V 0-20-2

Prerequisite: RADS 4534

Supervised clinical practice in performing nuclear medicine procedures.

RADS 4561 NUCLEAR MEDICINE SYNTHESIS 0-3-1

Prerequisite: RADS 3503, RADS 3150 and RADS 4540

Prerequisite or Corequisite: RADS 4534

A discussion of theoretical concepts of Nuclear Medicine.

RADS 4562 NUCLEAR MEDICINE SEMINAR 0-3-1

Prerequisite: RADS 4561 and RADS 4570

Prerequisite or Corequisite: RADS 4535

A discussion of advanced theoretical concepts of Nuclear Medicine.

RADS 4570 INTRODUCTION TO PET Prerequisite: RADS 3520 Prerequisite or Corequisite: RADS 4534 The principles of positron emission tomography.	3-1-3
RADS 4633 SONOGRAPHY CLINICAL EDUCATION III Prerequisite: RADS 3632 Supervised clinical practice in performing Sonographic procedures.	0-20-3
RADS 4634 SONOGRAPHY CLINICAL EDUCATION IV Prerequisite: RADS 4633 Supervised clinical practice in performing Sonographic procedures.	0-20-3
RADS 4635 SONOGRAPHY CLINICAL EDUCATION V Prerequisite: RADS 4634 Supervised clinical practice in performing Sonographic procedures.	0-20-3
RADS 4661 SONOGRAPHY SYNTHESIS Prerequisite: RADS 3603, 3652, and 4633 Corequisite: RADS 4634 A discussion of theoretical concepts of Sonography.	0-3-1
RADS 4662 SONOGRAPHY SEMINAR Prerequisite: RADS 4661 and 4634 Corequisite: RADS 4635 A discussion of theoretical concepts of Sonography.	0-3-1
RADS 4671 INTRODUCTION TO VASCULAR SONOGRAPHY Prerequisite: RADS 4114 and 4634 Corequisite: RADS 4635 Introduction to principles of vascular sonography.	3-1-3
RADS 4750 PATIENT ASSESSMENT AND MONITORING Prerequisite: RADS 3750, 3772 Management of the cardiovascular/interventional patient, pre, intra, and post procedure.	2-2-2
RADS 4751 EMERGENCY CARE Prerequisite: RADS 4750, 4763 Common cardiovascular emergencies and the optimal use of adjunctive pharmacology in addition to other therapies.	2-2-2
RADS 4752 PHYSIOLOGIC MONITORING AND RECORDING Prerequisite: RADS 4751, 4763 An overview of electrical and mechanical cardiac function.	3-0-3
RADS 4763 CARDIOVASCULAR CLINICAL EDUCATION III Prerequisite: RADS 3750, 3762. Prerequisite or corequisite: RADS 4750 Supervised clinical experience in cardiovascular/interventional procedures.	0-20-2
RADS 4764 CARDIOVASCULAR CLINICAL EDUCATION IV Prerequisite or corequisite: RADS 4751 Supervised clinical experience in cardiovascular/interventional procedures.	0-20-2
RADS 4765 CARDIOVASCULAR CLINICAL EDUCATION V Prerequisite: RADS 4764. Prerequisite or Corequisite: RADS 4752 Supervised clinical experience in cardiovascular/interventional procedures.	0-20-2

RADS 4771 CARDIOVASCULAR SYNTHESIS**0-3-1**

Prerequisite: RADS 3060, 4090, 4763

Prerequisite or Corequisite: RADS 4764

Discussion of theoretical concepts in cardiovascular interventional technology as they relate to practice.

RADS 4772 CARDIOVASCULAR SEMINAR**0-3-1**

Prerequisite: RADS 4764, 4771

Prerequisite or Corequisite: RADS 4765

Discussion of advanced theoretical concepts in cardiovascular interventional technology as they relate to practice.

READ–Reading**READ 0090 READING THE BIOGRAPHY****2-0-2**

Use of biographical material with emphasis on literature, the media, and development of receptive language skills. Focus on literal and critical thinking strategies with guided reading assignments, reader response journals, library research projects, use of electronic resources, summaries, and autobiographies.

READ 0091 LITERACY, ALTERNATIVE VIEWPOINTS, AND PROPAGANDA**2-0-2**

Use of the highly pervasive discourse of propaganda, alternate positions, with support for and against diverse viewpoints using multiple genres including politics, advertising, multicultural writings, speeches, editorials and essays. Acquisition of an intellectual framework and sophisticated level of thinking.

READ 0099 STRATEGIES FOR COLLEGE READING**3-0-3**

Prerequisite: placement according to CPE score

Reinforcement of basic college reading strategies. Emphasis on comprehension, critical thinking, vocabulary, main ideas, supportive details, organizational and rhetorical patterns, transitions, tone, purpose, fact and opinion, and inferences.

**READ 0099L STRATEGIES FOR COLLEGE READING WITH
COMPUTER APPLICATIONS****4-1-4**

Prerequisite: placement according to CPE score

Reinforcement of basic college reading strategies. Emphasis on comprehension, critical thinking, vocabulary, main ideas, supportive details, organizational and rhetorical patterns, transitions, tone, purpose, fact and opinion, and inferences, with focus on a computer laboratory component.

READ 0099T THEMATIC APPROACHES TO COLLEGE READING**3-0-3**

Prerequisite: placement according to CPE score

Corequisite: ENGL 0099T

A thematic approach to text selections and short stories or articles on a wide range of subjects with emphasis on comprehension, critical thinking, increased vocabulary, recognition of main ideas, supportive details, organizational and rhetorical patterns, transitions, tone, purpose, fact and opinion, and inferences.

RELI–Religion**RELI 2100 – WORLD RELIGIONS****3-0-3**

Prerequisite: eligibility for ENGL 1101

Survey of the major religious traditions of the world.

RELI 4000 – SPECIAL TOPICS IN RELIGIOUS STUDIES**3-0-3**

Prerequisite: RELI 2100

Subjects are announced when offered. Includes religious studies abroad field experience and research as arranged and approved by program coordinator. May be repeated for additional credit when topics change.

RESP–Respiratory Therapy**RESP 2110 MEDICAL TERMINOLOGY****3-0-3**

Prerequisite: ENGL 1101

The language of medicine and health care: word construction, definitions, spelling, abbreviations, symbols and information technology systems. Development of ability to comprehend and discuss medical records and professional journals. Development of effective written and oral communication skills.

RESP 3110 PATIENT ASSESSMENT**3-0-3**

Corequisite: RESP 3120 and RESP 3151C

Open only to majors in respiratory therapy-BS. A problem solving approach to evaluation and treatment of patients with cardiopulmonary disease. History-taking, physical examination, radiographs, ECG, lab tests, spirometry, and blood gas analysis.

RESP 3120 RESPIRATORY CARE EQUIPMENT**2-2-3**

Corequisite: RESP 3110 and RESP 3151C

Open only to majors in respiratory therapy-BS. Theory of operation, application, and evaluation of equipment used in respiratory care. Lab emphasis on selection, trouble shooting, quality control, and asepsis.

RESP 3151C CLINICAL PRACTICUM I**0-6-1**

Corequisite: RESP 3110 and RESP 3120

Open only to majors in respiratory therapy-BS. Preclinical skills development, orientation to the hospital environment, and introduction to electronic information systems.

RESP 3210 CLINICAL PHARMACOLOGY**3-0-3**

Prerequisite: RESP 3110 and RESP 3120 and RESP 3151C

Corequisite: RESP 3220 and RESP 3230 and RESP 3252C

Principles of pharmacology including pharmacokinetics, dynamics, drug interactions, and toxicology emphasizing drug groups used in treatment of cardiopulmonary disease.

RESP 3220 RESPIRATORY CARE FUNDAMENTALS**2-2-3**

Prerequisite: RESP 3110 and RESP 3120 and RESP 3151C

Corequisite: RESP 3210 and RESP 3230 and RESP 3252C

Development and implementation of the care plan; evaluation of patient response to therapy with extensive use of therapeutic protocols and decision making algorithms.

RESP 3230 DIAGNOSTIC PROCEDURES**3-0-3**

Prerequisite: RESP 3110 and RESP 3120 and RESP 3151C

Corequisite: RESP 3210 and RESP 3220 and RESP 3252C

A problem solving approach to evaluation and diagnosis of cardiopulmonary disease with emphasis on procedural protocols, analysis of results, and application to the care plan.

RESP 3252C CLINICAL PRACTICUM II**0-18-3**

Prerequisite: RESP 3110 and RESP 3120 and RESP 3151C

Corequisite: RESP 3210 and RESP 3220 and RESP 3230

Application of therapeutic protocols, assessment of patient response to therapy, and modifications of the care plan based on patient response outside of the critical care environment.

RESP 3315 PRINCIPLES OF MECHANICAL VENTILATION**2-3-3**

Prerequisites: RESP 3210, 3220, 3230, 3252C

Corequisites: RESP 3325, 3353C

Student focus on the operating principles of ventilators used in critical care. Pneumatic and electronic circuits, setting the control panel, phasing the respiratory cycle, ventilator modes, alarms and troubleshooting will be emphasized.

RESP 3325 MANAGING THE VENTILATOR PATIENT**2-0-2**

Prerequisites: RESP 3310, 3220, 3230, 3252C

Corequisites: RESP 3315, 3353C

Introduces students to indications for vent support, initiating and monitoring the ventilator-dependent patient, recognizing acute respiratory distress and managing adverse response.

RESP 3353C CLINICAL PRACTICUM III**0-18-3**

Prerequisite: RESP 3252C

Corequisite: RESP 3315 and RESP 3325

Care of the ventilator-dependent patient in the critical care environment. Patient assessment, airway care, trend monitoring, calibration, and set up of life support systems. CAI used to develop critical thinking skills.

RESP 4110 ADVANCED VENTILATORY SUPPORT**2-3-3**

Prerequisite: RESP 3315, RESP 3325 and RESP 3353C

Corequisite: RESP 4120, RESP 4130, RESP 4140 and RESP 4154C

Case-oriented approach to management of the ventilator dependant patient. Patient assessment and modification of the care plan based on patient response.

RESP 4120 CARDIOPULMONARY CRITICAL CARE**3-0-3**

Prerequisite: RESP 3315, RESP 3325 and RESP 3353C

Corequisite: RESP 4110 and RESP 4130, RESP 4140 and RESP 4154C

Hemodynamic monitoring, fluid/electrolyte management, cardiovascular pharmacology, and ACLS protocols.

RESP 4130 PERINATAL CARE**3-3-4**

Prerequisite: RESP 3315, RESP 3325 and RESP 3353C

Corequisite: RESP 4110 and RESP 4120 and RESP 4140 and RESP 4154C

Care of the pediatric and neonatal patient in the critical care environment. Patient assessment, initiation and modification of the care plan based on patient response.

RESP 4140 CARDIOPULMONARY MEDICINE**3-0-3**

Prerequisite: RESP 3315, RESP 3325 and RESP 3353C

Corequisite: RESP 4110, RESP 4120, RESP 4130, and RESP 4154C

Hemodynamic monitoring, fluid/electrolyte management, cardiovascular pharmacology, and ACLS protocols.

RESP 4154C CLINICAL PRACTICUM IV**0-18-3**

Prerequisite: RESP 3315, RESP 3325 and RESP 3353C

Corequisite: RESP 4110 and RESP 4120 and RESP 4130 and RESP 4140

Advanced monitoring of the CP and CV system in the adult ICU environment. Home/subacute care rotation will emphasize care of the chronically ill patient. Introduction to the role of the RCP in pediatric/neonatal ICU.

RESP 4215 PROFESSIONAL ISSUES IN RESPIRATORY CARE**3-0-3**

Prerequisites: RESP 4110, 4120, 4130, 4140, 4154C

Co requisites: RESP 4265C

A senior capstone course with emphasis on the economics of health care, fundamental principles of management and leadership, applied research and legal issues.

RESP 4265C CLINICAL INTERNSHIP**0-36-12**

Prerequisite: RESP 4110, 4120, 4130, 4140, 4154C

Co requisites: RESP 4215

A preceptor-based clinical capstone course designed to facilitate independent practice of respiratory care and transition into the workforce. Students must pass a comprehensive, summative clinical evaluation and earn the CRT credential to earn a passing grade. Evenings, nights, and weekend scheduling will be required. Application and interview required.

RGT_ – Regents' Test Preparation**RGTR 0198 REGENTS' READING PREPARATION****3-0-3**

Regents' Reading Test preparation, required following an unsuccessful attempt to pass the Regents' Test in reading. Review of strategies for improving vocabulary development, especially contextual, and for increasing reading comprehension corresponding to areas on the Regents' Reading Test-literal, inferential, and analytical. Emphasis on test-taking techniques and practice.

RGTE 0199 COMPOSITION REVIEW**3-0-3**

Prerequisite: ENGL 1101 and ENGL 1102

Preparation of students for success on essay portion of Regents' examination through intensive writing of essays.

RHAB – Rehabilitation Science**RHAB 4901 DIRECTED STUDY IN REHABILITATION SCIENCE****1-0-1**

Prerequisite: Permission of Department Head

Individualized instruction in an area of interest in Rehabilitation Science

RHAB 4902 DIRECTED STUDY IN REHABILITATION SCIENCE**2-0-2**

Prerequisite: Permission of Department Head

Individualized instruction in an area of interest in Rehabilitation Science

RHAB 4903 DIRECTED STUDY IN REHABILITATION SCIENCE**3-0-3**

Prerequisite: Permission of Department Head

Individualized instruction in an area of interest in Rehabilitation Science

RHAB 4904 DIRECTED STUDY IN REHABILITATION SCIENCE**4-0-4**

Prerequisite: Permission of Department Head

Individualized instruction in an area of interest in Rehabilitation Science

RHAB 5100U NEUROMUSCULAR BASIS OF EXERCISE**3-0-3**

Prerequisite: BIOL 2081 & 2082

Principles of neuromuscular structure and function explored in the context of exercise

SCIE – Science**SCIE 1000 INTRODUCTION TO SCIENTIFIC INQUIRY****3-0-3**

Examination of the methods of science. Traces the evolution of scientific thought from the perspectives of physics, chemistry and biology. Focuses on major concepts in the natural sciences through a quantitative approach.

SCIE 1212 CHEMICAL ENVIRONMENT**3-0-3**

Prerequisite: eligibility for MATH 1111

Fundamental concepts, laws, and theories of chemistry. For non-science majors interested in a quantitative survey of the chemistry underlying our world, including classification of the elements, basic chemical reactions, atomic structure, and earth science.

SCIE 1212L CHEMICAL ENVIRONMENT LAB**0-2-1**

Corequisite: SCIE 1212

Laboratory investigations of the fundamental concepts, laws, and theories of chemistry.

SMED – Sports Medicine**SMED 5005U – MUSCULOSKELETAL BASIS OF EXERCISE****3-0-3**

Prerequisites: a B or better in BIOL 2081 and 2082 or course equivalents.

Anatomical principles of the musculoskeletal system as related to human movement and sports medicine.

SMED 5015U - ASSESSMENT AND EVALUATION OF MUSCULOSKELETAL INJURIES**3-0-3**

Prerequisite/Corequisite: SMED 5005U

Fundamental skills of athletic training assessment and evaluation including basic examination, acute care, and documentation for patients with athletically related injuries or illnesses. Emphasis is placed on musculoskeletal disorders. Case studies will link the material presented in this course with other courses taught concurrently.

SMED 5050U PHARMACOLOGY OF SPORTS MEDICINE INJURY AND ILLNESS**2-0-2**

Prerequisites: a B or better in BIOL 2081 and 2082 or course equivalents.

Basic understanding of pharmacology and the drugs commonly used in physical medicine and exercise.

SMED 5055U – PATHOPHYSIOLOGY OF SPORTS MEDICINE INJURY AND ILLNESS**3-0-3**

Prerequisites: a B or better in BIOL 2081 and 2082 or course equivalents.

Examines mechanisms responsible for disease processes and subsequent care of illness associated with the participation in physical activity.

SMED 5060U PHYSIOLOGICAL FOUNDATIONS OF SPORT AND PHYSICAL ACTIVITY**3-0-3**

The scientific basis of sports training and the physiological adaptations necessary in specific athletic activities. Crosslisted as PECE 5060.

SMED 5070U THEORY AND METHODOLOGY OF STRENGTH & CONDITIONING**2-2-3**

Prerequisite: none

The efficacy of methods and models of sports training and activities requiring intensive strength and conditioning programs.

SMED 5090U NUTRITIONAL ISSUES IN SPORTS MEDICINE**3-0-3**

Prerequisite: none

Impact of various nutritional regimens on performance and recovery in athletics.

SMED 5600U HEALTHY WEIGHT MGMT & BODY COMP**3-0-3**

A survey of research and applications for methods of improving body composition with a focus on optimal health and physical performance. Students will investigate effective strategies for long-term changes in body fatness and lean body mass.

SMED 5940U INTERNSHIP IN STRENGTH AND CONDITIONING**V-V-(1-3)**

Prerequisite: Permission of Instructor

Supervised instruction in strength and conditioning techniques.

SMED 5945U INTERNSHIP IN SPORTS MEDICINE I**V-V-(1-3)**

Prerequisite: permission of instructor

On-site clinical experiences closely supervised by university faculty and facility instructors in the wellness/health promotion, adult fitness or cardiac rehabilitation settings. Weekly seminars will address current clinical issues in the selected population. May be taken for repeat credit.

SOCI–Sociology**SOCI 1101 INTRODUCTORY SOCIOLOGY****3-0-3**

Prerequisite: eligibility for ENGL1101

Introduction to the concepts and methods of the science of human group behavior including the study of socialization, culture, race, ethnicity, gender, age, and social institutions.

SOCI 3130 HATE CRIMES AND ORDERED LIBERTY**3-0-3**

Prerequisite: HIST 1100 or POLS 1100 or CRJU 1100

Racial, ethnic, cultural, and religious strife and the tension between freedom and equality in democratic societies. Focus on the governmental definition of hate crimes and the historical, economic, and political roots of such crimes. Crosslisted as CRJU 3130.

SOCI 3150 SOCIOLOGY OF THE FAMILY**3-0-3**

Prerequisite: SOCI 1101

Institutions having major responsibility for socializing members of society including various forms and types of families.

SOCI 3180 DEVIANCE AND SOCIAL CONTROL**3-0-3**

Prerequisite: CRJU 1100 or SOCI 1101

Nature of deviance, social behavior that departs from that regarded as normal or socially acceptable within a society or the social context, with a focus on sociological theories of deviance. Deviance and social control are revealed as complex social processes, cultural arrangements, and cultural adaptations. Cross-listed with CRJU 3180.

SOCI 3200 RACIAL AND ETHNIC MINORITIES**3-0-3**

Prerequisite: SOCI 1101

Historical and/or contemporary realities of various racial and ethnic minority groups in the U.S., including African-Americans, Latinos, Native Americans, and Asian-Americans.

SOCI 3330 EXPLORING POPULAR CULTURE**3-0-3**

Prerequisite: SOCI 1101

Examination of popular culture using mass media, technology, and language to explore a given era. Comparisons of lifestyles, gender roles, attitudes towards various groups, and the national and regional mood of the times.

SOCI 3340 SOCIAL STRATIFICATION**3-0-3**

Prerequisite: SOCI 1101 or POLS 1150

Examines the social structure and various forms of social inequality. Examples include class, race, ethnicity, and gender in contemporary society.

SOCI 3360 SOCIAL THEORY**3-0-3**

Prerequisites: SOCI 1101 or POLS 2100

Introduction to sociological theory from the classical to the contemporary. Major theoretical fields, theorists, and issues are covered. Cross-listed with POLS 3360.

SOCI 3400 METHODS OF SOCIAL RESEARCH**3-0-3**

Prerequisite: SOCI 1101

Methods of applied social research including case studies, record research, experimental designs, surveys, observation, and systems interactions in relation to social data.

SOCI 3490 COMPARATIVE SOCIETIES, POLITICS AND INSTITUTIONS**3-0-3**

Prerequisite: SOCI 1101 or POLS 1150

On-site examination of society and social institutions of other countries. Course intended for study abroad programs only.

SOCI 3500 SOCIAL PROBLEMS**3-0-3**

Prerequisite: SOCI 1101

Examination of contemporary social problems such as deviance, crime, inequality, ageism, sexism, and institutional crisis in the context of sociological theory.

SOCI 3510 FAMILY VIOLENCE**3-0-3**

Prerequisite: CRJU 1100 or SOCI 1101 or permission of the instructor

Study of the family as an institution that may produce violent individuals. Correlates of family violence, theoretical explanations, impact on public policy, effects on victims and society. Crosslisted with CRJU 3510.

SOCI 3600 MEDIA AND SOCIETY**3-0-3**

Prerequisite: SOCI 1101 or POLS 1150

Study of media's impact on society and the social construction of reality.

SOCI 3800 SOCIOLOGY OF SEXUALITY**3-0-3**

Prerequisite: SOCI 1101 or POLS 1150 or GWST 1101

Examines the social construction of sexuality, including social influences upon sexual scripts and normative ideas regarding sexuality.

SOCI 4010, -20, -30 SPECIAL TOPICS IN SOCIOLOGY**3-0-3**

Prerequisite: SOCI 1101

Upper-level courses not otherwise offered in the sociology curriculum. Various substantive topics, theoretical issues and problems. Possibility to repeat with different topics. No more than two such courses counted in the minor.

SOCI 4300 ALCOHOL AND DRUG STUDIES**3-0-3**

Prerequisite: SOCI 1101

Examination of the various forms of alcohol and drug abuse with emphasis on the stages of harmful dependence and addiction, including legal and social implications along with treatment and rehabilitation.

SOCI 4500 INDEPENDENT STUDY**3-0-3**

Prerequisite: SOCI 1101

By invitation of the professor. Open to transient students only by permission of the dean of Arts and Sciences at Armstrong Atlantic and the student's home institution.

SOCI 5450U POLITICAL SOCIOLOGY OF NATIONALISM**3-0-3**

Prerequisite: POLS 2100 or SOCI 1101

Various theories of nationalism and their social, historical, economic, and cultural contexts. Cultural, ethnic, and national identity and conflict are the focus. Ethnic, religious, civic, economic, and anti-colonial nationalism are examined in a global perspective.

SOCI 5600U SOCIOLOGY OF GENDER**3-0-3**

Prerequisite: SOCI 1101 or POLS 1150 or GWST 1101

Examines the social construction of gender and gender inequality in society.

SPAN – Spanish**SPAN 1001 ELEMENTARY SPANISH I****3-0-3**

Prerequisite: eligibility for ENGL 1101

Spanish grammar, pronunciation, and oral comprehension. Introduction to the culture and civilization of the Spanish speaking world.

SPAN 1002 ELEMENTARY SPANISH II**3-0-3**

Prerequisite: eligibility for ENGL 1101 and SPAN 1001 equivalency

Spanish grammar, pronunciation, and oral comprehension. Introduction to the culture and civilization of the Spanish speaking world.

SPAN 2001 INTERMEDIATE SPANISH**3-0-3**

Prerequisite: eligibility for ENGL 1101 and SPAN 1002

Emphasis on Hispanic culture using literary and nonliterary texts with continued development of reading, writing, listening, and speaking skills.

SPAN 2002 INTERMEDIATE SPANISH II**3-0-3**

Prerequisite: eligibility for ENGL 1101 and SPAN 2001

Continuation of SPAN 2001. Promotion of further awareness of Hispanic culture using literary and nonliterary texts with continued development of reading, writing, listening, and speaking skills.

SPAN 2050 SPANISH FOR HEALTH CARE SYSTEMS**3-0-3**

Prerequisite: SPAN 2001 and eligibility for ENGL 1101

Skills to communicate with Spanish-speaking patients in a wide variety of clinical situations.

- SPAN 3031 SPANISH CONVERSATION AND COMPOSITION I** 3-0-3
Prerequisite: SPAN 2002
Conversational Spanish to develop greater oral proficiency and awareness of Hispanic culture. Review of grammar and syntax through guided essays.
- SPAN 3032 SPANISH CONVERSATION AND COMPOSITION II** 3-0-3
Prerequisite: SPAN 2002
Continuation of Spanish 3031.
- SPAN 3050 ADVANCED GRAMMAR AND SYNTAX** 3-0-3
Prerequisite: SPAN 2002
Advanced grammar and syntax, exercises, essays, and translations.
- SPAN 3060 ADVANCED GRAMMAR AND SYNTAX FOR NATIVE SPEAKERS** 3-0-3
Prerequisite: eligibility for SPAN 2002 and permission of instructor or department
Grammar and syntax for native speakers.
- SPAN 3111 CIVILIZATION AND CULTURE OF SPAIN** 3-0-3
Prerequisite: SPAN 2002
Civilization and culture of Spain from the pre-Roman era to the present.
- SPAN 3120 CIVILIZATION AND CULTURE OF LATIN AMERICA** 3-0-3
Prerequisite: SPAN 2002
Civilization and culture from the pre-Columbian era to the present.
- SPAN 3200 INTRODUCTION TO LITERATURE** 3-0-3
Prerequisite: SPAN 2002
Analysis of Hispanic poetry, prose, and drama.
- SPAN 3210 SURVEY OF SPANISH PENINSULAR LITERATURE I** 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches to the literary tradition in Spain from the jarchas to the Enlightenment, while including medieval and golden age literature.
- SPAN 3220 SURVEY OF SPANISH PENINSULAR LITERATURE II** 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches to the literary tradition in Spain from the Enlightenment to the present. Focus on romanticism, the generation of 1898, the generation of 1927, and post-civil war literature.
- SPAN 3230 SURVEY OF SPANISH AMERICAN LITERATURE I** 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches to the literary tradition in Spanish America through representative samples of indigenous works, Chronicles of the Indies, the baroque, romanticism, and modernism.
- SPAN 3240 SURVEY OF SPANISH AMERICAN LITERATURE II** 3-0-3
Prerequisite: SPAN 3200
Analytical methods and approaches to the literary tradition in Spanish America from the Mexican Revolution to the present.
- SPAN 3510, -20 STUDY ABROAD** 3-0-3
Prerequisite: SPAN 1002 or permission of the instructor
A term abroad of Spanish study in conjunction with the University System of Georgia. Intensive instruction complemented by excursions.
- SPAN 3750 INTERNSHIP I - PRE-STUDENT TEACHING** 0-V-3
Prerequisites: Admission to the College of Education, EDUC 3100, EDUC 3200
Opportunity to observe and participate in classroom activities in a supervised P-12 public school setting.

SPAN 4010 SPECIAL GENRE 3-0-3

Prerequisite: SPAN 3200

Hispanic literature: subject announced when course offered. May be repeated for additional credit when topics change.

SPAN 4020 SPECIAL AUTHOR 3-0-3

Prerequisite: SPAN 3200

Hispanic literature: subject announced when course offered. May be repeated for additional credit when topics change.

SPAN 4030 SPECIAL TOPICS 3-0-3

Prerequisite: SPAN 3200

Hispanic literature: subject announced when course offered. Thematic studies such as the picaresque and the anti-hero. May be repeated for additional credit when topics change.

SPAN 4040 SPANISH PHONETICS 3-0-3

Prerequisite: eligibility for SPAN 2002

Spanish phonological system.

SPAN 4060 CONTEMPORARY SPANISH AMERICAN NOVEL 3-0-3

Prerequisite: SPAN 3200

Analytical methods and approaches toward understanding the twentieth-century novel and its impact on world literature. Discussion of magical realism, marvelous realism, the testimonial novel, and the novel of the dictator.

SPAN 4070 CONTEMPORARY SPANISH PENINSULAR NOVEL 3-0-3

Prerequisite: SPAN 3200

Analytical methods and approaches toward understanding the novel and its impact on world literature. Discussion of realism, naturalism, the generation of 1898, and the effects of Franco's dictatorship on contemporary literature.

SPAN 4080 SPANISH PENINSULAR THEATRE 3-0-3

Prerequisite: SPAN 3200

Analytical methods and approaches toward understanding the development of a national drama from the auto de fe, the golden age honor plays, Romanticism and don Juanismo, the esperpento, as well as works confronting Franco's dictatorship.

SPAN 4090 SPANISH AMERICAN THEATRE 3-0-3

Prerequisite: SPAN 3200

Analytical methods and approaches toward understanding the development of drama ranging from imitative models that upheld authority through that of social protest and revolution to bring about change throughout Spanish America.

SPAN 4100 SPANISH PENINSULAR POETRY 3-0-3

Prerequisite: SPAN 3200

Analytical methods and approaches toward understanding Spanish poetry including the jarchas, the medieval epic, la cuaderna vía, the golden age, the romancero, etc.

SPAN 4110 SPANISH AMERICAN POETRY 3-0-3

Prerequisite: SPAN 3200

Analytical methods and approaches toward understanding Spanish American poetry including the baroque, neo-classical, romanticism, modernism, the avant-garde, and contemporary trends.

SPAN 4750 INTERNSHIP II - STUDENT TEACHING 0-V-12

Prerequisites: Admission to the College of Education; completion of all coursework

Supervised field-based teaching experiences providing the opportunity to use knowledge and skills in a P-12 public school setting.

SPAN 4900 INDEPENDENT STUDY 3-0-3

Prerequisite: permission of instructor or department and SPAN 2002

Open to transient students only with permission of the department head.

SPAN 4990 LANGUAGE INTERNSHIP**V-V-(1-3)**

Prerequisite: permission of instructor or department

Open to juniors or above. Individually designed project involving off-campus instruction at the school level (grades 1-6). Three preparation hours for each hour of classroom instruction. Supervision by sponsoring institution and Spanish faculty member and coordinated by intern, faculty member, and classroom teacher. Student must have earned a 2.75 minimum overall GPA, a 3.0 GPA in Spanish, and have departmental internship committee recommendation.

SPAN 5442U CONTENT AND METHODS SPANISH EDUCATION**3-2-3**

Prerequisite: Admission to the College of Education.

Methods, contents, and materials focusing on the teaching of foreign languages for P-12. Directed field experience involved with opportunity for presentation of instructional models in the classroom.

SPED—Special Education**SPED 2001 THE FIELD OF SPECIAL EDUCATION: PAST AND FUTURE****3-0-3**

The field through an historical overview of the issues, cultural and social influences, trends, state and federal legislation, as well as case law that formed and continues to shape the field of special education.

SPED 2003 CURRICULUM AND EDUCATIONAL PRACTICES FOR STUDENTS WITH DISABILITIES**1-2-3**

Prerequisites: CEUG 1010, CEUG 2100, and admission to the College of Education

Overview of programs and special education services for children and adolescents with mild to moderate disabilities. On-site study projects at a variety of special service sites are required.

SPED 3001 TECHNOLOGY FOR THE SPECIAL EDUCATOR**2-0-2**

Prerequisite: admission to the College of Education

The use of adaptive technology, methods for linking technology and instruction, techniques for selecting and utilizing computer based instructional programs, and methods for developing multimedia, interactive instructional materials.

SPED 3002 ADAPTIVE PHYSICAL EDUCATION FOR STUDENTS WITH DISABILITIES**3-2-3**

Instruction in methods for adapting physical education for and offering recreational therapy to students with disabilities ranging from mild to severe. Includes practicum.

SPED 3006 ASSESSMENT**3-1-3**

Prerequisites: CEUG 1010, CEUG 2100, admission into the College of Education

Instruction in formal and informal assessment techniques and instruments appropriate for use in assessing students with disabilities. Directed field experience required.

SPED 3007 ELIGIBILITY AND IEP DEVELOPMENT**3-1-3**

Prerequisites: CEUG 1010, CEUG 2100, and admission into the College of Education

Pre-referral and referral processes, eligibility criteria for services, due process and development of individual educational plans. Directed field experience required.

SPED 3009 PHYSICAL AND HEALTH DISABILITIES**3-1-3**

Prerequisites: CEUG 1010, CEUG 2100, admission into the College of Education

A study of the impact of sensory impairments, physical, and health disabilities on the learning experience. Laws and policies related to the provision of specialized health care in education settings will be addressed.

SPED 3010 CONSTRUCTING LITERACY PROGRAMS FOR PK-12**3-0-3**

An in-depth study of how to construct literacy programs in PK-12 with emphasis on reading strategies, approaches, techniques, and evaluation tools. Course will include strategies for teaching written expression and spelling. This course will satisfy the certification requirement for the teaching of reading and writing.

SPED 3020 FIELD EXPERIENCES: GRADES P-5**0-V-1**

Prerequisites: admission into the College of Education, permission of instructor or department head
Directed field experiences with students with disabilities in grades P-5.

SPED 3040 FIELD EXPERIENCES: GRADES 6-8**0-V-1**

Prerequisites: admission into the College of Education, permission of instructor or department head
Directed field experiences with students with disabilities in grades 6-8.

SPED 3500 CHARACTERISTICS OF BEHAVIORAL DISORDERS**3-1-3**

Characteristics of the types of emotional and behavior disorders encountered among children and youth are reviewed along with currently accepted theories and systems for their behavioral and educational management.

SPED 3060 FIELD EXPERIENCES: GRADES 9-12**0-V-1**

Prerequisites: admission into the College of Education, permission of instructor or department head
Directed field experiences with students with disabilities in grades 9-12.

SPED 3510 METHODS FOR TEACHING STUDENTS WITH BEHAVIORAL DISORDERS**3-1-3**

Prerequisite: SPED 3500

Individualized and group methods of teaching students with behavior disorders are analyzed. An ecological developmental approach to behavioral and educational needs is emphasized.

SPED 4000 INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH INTELLECTUAL DISABILITIES**3-2-3**

Prerequisite: admission to special education and SPED 2003 and SPED 3001

Instruction in curriculum development, technology enhanced methods of instruction, and research based teaching techniques designed for students with intellectual disabilities. Includes practicum.

SPED 4001 INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH MULTIPLE/SEVERE DISABILITIES**3-2-3**

Prerequisite: admission to special education and SPED 2003 and SPED 3001 and SPED 3006 and SPED 3007

In-depth instruction in research based and technology enhanced methods for teaching students with multiple and/or severe disabilities.

SPED 4002 TEACHING MATHEMATICS TO STUDENTS WITH DISABILITIES**3-2-3**

Prerequisite: admission to special education and SPED 2002 and SPED 3001 and SPED 3004 and SPED 3005

Strategies and techniques for teaching mathematics through research based and technology enhanced approaches. Includes practicum.

SPED 4003 TEACHING READING, SPELLING, AND WRITTEN EXPRESSION TO STUDENTS WITH DISABILITIES**3-2-3**

Prerequisite: admission to special education and SPED 2003 and SPED 3001 and SPED 3003 and SPED 3007

Research based, multisensory, technology enhanced strategies and techniques for teaching reading, spelling, and written expression skills in an integrated process. Includes practicum.

SPED 4004 INSTRUCTIONAL STRATEGIES IN THE CONTENT AREAS**3-2-3**

Prerequisite: admission to special education and SPED 3001

Research based and technology enhanced strategies for teaching study skills and methods for adapting the content curriculum to meet the special learning needs of students with disabilities. Directed field experience required.

SPED 4005 STRATEGIES FOR DEVELOPING SOCIAL SKILLS AND BEHAVIORAL CONTROLS**3-3-3**

Prerequisite: admission to special education and SPED 2003 and SPED 3001 and SPED 3003 and SPED 3007

Instructional methods for teaching conflict management, social interaction skills, language pragmatics, and social skills conducive to learning. Exploration of social issues and influences. Includes practicum.

SPED 4006 PLANNING AND MANAGING THE LEARNING ENVIRONMENT 3-2-3

Prerequisite: admission to special education, SPED 2003 and SPED 3001 and SPED 3003 and SPED 4002 and SPED 4003

Time management, unit planning, establishing an appropriate classroom environment, scheduling, selection and organization of instructional material, development of high quality teacher made materials. Includes practicum.

SPED 4007 DIRECTED FIELD BASED RESEARCH 1-3-3

Prerequisite: completion of 32 hours of major course work

Opportunities for pre-service teachers to engage in field based research in special education. A capstone course. May serve as an honors course.

SPED 4008 COLLABORATIVE PROCEDURES FOSTERING INCLUSION AND TRANSITIONS 3-1-3

Prerequisites: SPED 4005 and SPED 4006

Corequisite: SPED 4750

Strategies for working collaboratively with paraprofessionals, a variety of support professionals, and parents, provide appropriate special education services to individuals in various instructional programs and settings. Emphasizes team planning. Directed field experience required.

SPED 4750 INTERNSHIP II - STUDENT TEACHING 0-V-12

Prerequisites: admission into the College of Education; completion of all coursework

Supervised field-based capstone teaching experience.

SSCI – Social Science**SSCI 2960 FOREIGN LANGUAGE AND CULTURE V-V-(1-15)**

Prerequisite: permission of the dean of the College of Arts and Sciences

Offered as part of a study abroad or global studies program. Instruction in language and/or culture of a foreign country or people. Crosslisted as HUMN 2960.

STAT – Statistics**STAT 3211 - PROBABILITY AND STATISTICS APPLICATIONS I 3-0-3**

Prerequisite: MATH 2072

Data collection, organization and description; probability, random variables; discrete and continuous probability distributions; Central Limit Theorem; point and interval estimation; tests of hypotheses; simple linear regression and correlation.

STAT 3222 - PROBABILITY AND STATISTICS APPLICATIONS II 3-0-3

Prerequisite: STAT 3211 and MATH 2160

Sampling techniques, multiple linear regression, nonparametric statistics, and MANOVA.

STAT 3231 - MATHEMATICAL STATISTICS I 3-0-3

Prerequisite: MATH 2083

Probability, properties of discrete and random variables, joint and conditional distributions, expectation, and transformations.

STAT 3232 - MATHEMATICAL STATISTICS II 3-0-3

Prerequisite: STAT 3231

Central limit theorem, point and interval estimation, sampling distributions, sufficient statistics, and hypothesis testing.

STAT 3240 - EXPERIMENTAL DESIGN 3-0-3

Prerequisite: STAT 3211 or STAT 3231

Completely randomized and randomized block designs, incomplete block designs, fixed, random and mixed effects models, split-plot designs, nested experiments, analysis of covariance, and factorial experiments.

TECH–Technology**TECH 5000U INTEGRATING TECHNOLOGY IN THE STUDENT-CENTERED CLASSROOM (INTECH)****V-V-3**

A hands on laboratory experience that will provide the skills necessary to seamlessly integrate technology into the curriculum. This course will satisfy the State of Georgia's technology re-certification requirements for P-12 educators.

TECH 5010U TEACHERS DISCOVERING COMPUTERS

Pre-requisite/Co-requisite: None

Online computer course for educators that focuses strategies to effectively integrate technology into the classroom.

THEA–Theatre**THEA 1100 THEATRE APPRECIATION****3-0-3**

Survey and critical appreciation of theatre.

THEA 1200 INTRODUCTION TO THEATRE**3-0-3**

Theatre from the Greeks to the present, exploring diverse historical and cultural movements manifested in, reflected in, and often shaped by the drama.

THEA 1400 THEATER VOICE I**2-0-2**

Fundamentals of voice training and introduction to repertoire.

THEA 1500 THEATER VOICE II**2-0-2**

Prerequisite: THEA 1400 or permission of instructor

Continuation from THEA 1400.

THEA 2270 THEATER LAB**0-1-1**

Prerequisite: ENGL 1101

Practical experience in the theatre. The student will work on or back stage during an approved Masquers' or departmental production. Only one hour of credit may be earned per term. The maximum total credit permitted is three semester hours. Offered each semester.

THEA 2410 ORAL INTERPRETATION**3-0-3**

Prerequisite: eligibility for ENGL 1101

Oral interpretation of poetry, prose and drama. Methods of literary analysis and vocal techniques needed to communicate an author's mood and meaning.

THEA 3000 ACTING I**3-0-3**

Basic acting which focuses on stage movement, fundamentals of voice and diction, improvisation, dramatic imagination, memory, and scene analysis. Performance of scenes and monologues from contemporary drama.

THEA 3030 CREATIVE DRAMATICS AND CHILDREN'S THEATRE**3-0-3**

Exploration of the various elements which make up a dramatic event, such as improvisational-based acting and story telling, which can be used as a teaching device.

THEA 3040 STAGECRAFT**3-0-3**

Systematic introduction to the fundamentals of scenic design, construction and rigging. The course relies heavily on hands-on instruction with the tools, techniques and materials used in mounting a stage production.

THEA 3050 STAGE MOVEMENT**3-0-3**

Prerequisite: eligibility for ENGL 1101

A workshop class focusing on the development of movement techniques including isolation, center, balance, Alexander Technique, mime, clowning, hand-to-hand combat, kinesthetics, and neutral mask.

THEA 3100 AUDITIONS**1-0-1**

Prerequisite: eligibility for ENGL 1101

Theory and techniques of auditioning. Types of auditions, material selection, and editing will be covered.

THEA 3270 VIDEO LAB**0-1-1**

Prerequisite: ENGL 1102

Practical experience in video production through work on approved projects under supervision of Armstrong Atlantic's video production coordinator. Only one hour of credit may be earned per semester. Repeatable up to three hours. Crosslisted as COMM 3270.

THEA 3400 HISTORY OF FILM**3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

History and development of cinema from the silent period to the present time. Crosslisted as FILM 3400.

THEA 3420 ACTING II**3-0-3**

Prerequisite: THEA 3000 or permission of instructor or department

Characterization and styles of acting; historical, critical, practical, theoretical, and experimental perspectives. Emphasis on development of performance skills.

THEA 3440 HISTORY OF THEATRE**3-0-3**

Theatrical art from its beginnings through the Elizabethan period, emphasizing theatrical conventions of Greek, Roman medieval, and Elizabethan theatre.

THEA 3460 PLAY DIRECTING**3-0-3**

Prerequisite: ENGL 1101

Theory and practice of play directing, including preparing and executing short scenes and plays.

THEA 3470 THEATRE MANAGEMENT**3-0-3**

Prerequisite: ENGL 1101

Theory and practice in theatre management, including budget planning, box office, publicity, royalties, and other aspects of management.

THEA 3490 TELEVISION THEORY AND CRITICISM**3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Television theory and criticism with special emphasis on television as a media form. Crosslisted as FILM 3490.

THEA 3500 INTRODUCTION TO FILM**3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Emphasis on the critical appreciation of film as an art form. Crosslisted as FILM 3500 and JOUR 3500.

THEA 3570 THEATRE MANAGEMENT II: MARKETING THE ARTS**3-0-3**

Prerequisite: THEA 3470 and permission of instructor

Emphasis is on audience analysis and development. Publicity, promotions, and marketing tools examined.

THEA 3600 SCRIPT ANALYSIS**3-0-3**

Prerequisite: ENGL 1101

Assessment of script demands from the performance perspective of the actor, designer and director.

THEA 3700 SCENE DESIGN**3-0-3**

Prerequisite: THEA 3040 or THEA 3600 or permission of instructor or department

Principles of scenography. Emphasis on drafting, rendering and model construction.

THEA 3740 MAKE UP DESIGN**3-0-3**

Prerequisite: THEA 1100 or THEA 1200 or THEA 2410 or permission of instructor or department

Principles of the art and techniques of make up design.

THEA 3750 LIGHT DESIGN 3-0-3

Prerequisite: THEA 3040 or THEA 3600 or permission of instructor or department
Intensive study of technical and design elements of stage lighting. Survey of equipment and techniques standard in performance industry.

THEA 3800 VIDEO PRODUCTION I 3-0-3

Prerequisite: permission of instructor
Overview of various forms of single camera video and film production. Topics include creation of TV commercials, instructional videos, etc. Emphasis on producing narrative.

THEA 3810 VIDEO PRODUCTION II: INTERMEDIATE TECHNIQUES 3-0-3

Prerequisites: THEA 3800 and permission of instructor
Emphasis on intermediate storytelling techniques through directing and editing short films. Topics include composition, pacing and editing.

THEA 3850 PROBLEMS IN DESIGN 3-0-3

Prerequisite: THEA 3040 or permission of instructor
Exploration of unique approaches to scenic design. Environmental spaces, drop productions, designing for the round to be covered.

THEA 3900 PLAY PRODUCTION 3-0-3

Prerequisite: THEA 1100 OR 1200 OR 2410 or permission of instructor
Theory and techniques in all aspects of mounting a stage production: play selection, casting, rehearsal process, performance demands, FOH, SM duties, running duties covered. Course culminates in performance of finished production. Highly recommended for Theater minors.

THEA 4000 SPECIAL TOPICS IN THEATRE V-V-(1-3)

Prerequisite: ENGL 1101
Subject announced when course offered. Subjects vary, such as: classical acting styles, absurdist drama, stage combat, scenic painting.

THEA 4030 CHILDREN'S THEATRE HOUR 3-0-3

Prerequisite: THEA 1100 OR 1200 OR 2410 or permission of instructor
Study of production elements and practical experience in producing, performing, and touring children's theatre. Elements include script selection and editing, adaptation to match audience age, etc.

THEA 4040 STAGECRAFT II 3-0-3

Prerequisite: THEA 3040 or permission of instructor
Exploration of unique material and techniques expected of trained production technician.

THEA 4420 ACTING FOR THE CAMERA 3-0-3

Prerequisite: THEA 1100 OR 1200 OR 2410 or permission of instructor
An introduction to the techniques of acting for the camera.

THEA 4430 ACTING FOR THE CAMERA II: ADVANCED TECHNIQUES 3-0-3

Prerequisite: THEA 4420 or permission of instructor
A continuation of techniques and methods used in camera acting.

THEA 4470 STAGE MANAGERS AND DESIGNERS LAB 0-2-2

Prerequisite: permission of instructor or department
Practical experience in stage management, set, light or costume design. Course repeatable to a maximum of 6 credit hours.

THEA 4500 DRAMA WORKSHOP 0-3-3

Prerequisite: ENGL 1101
Summer stock theatre: all aspects of production.

THEA 4510 DRAMA WORKSHOP 0-3-3

Prerequisite: ENGL 1101
Summer stock theatre: all aspects of production.

THEA 4900 INDEPENDENT STUDY**V-V-(1-3)**

Prerequisite: ENGL 1101

Open only to seniors. Independent study in drama, offered on demand. Open to transient students only with permission of dean of faculty at Armstrong Atlantic and the student's home institution.

THEA 4950 CAPSTONE-SENIOR THESIS/PROJECT**V-V-3**

Prerequisite: permission of instructor or department

Open to seniors. Proposal and execution of a major research project or performance demonstrating a mastery of methods, content or techniques in area of specialization. Proposal must be accepted by drama faculty.

THEA 4980 DIRECTING LAB**0-2-2**

Prerequisites: THEA 3460 and permission of instructor

Hands on experience of directing duties for mounting full-length stage production from script selection through to public performance.

THEA 4990 INTERNSHIP**V-V-(1-12)**

Prerequisite: permission of instructor or department

Open to juniors. Offered by specific arrangement. Student prepares an individually designed project involving off-campus work/study research.

THEA 5010U TOPICS IN FILM**3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Special topics in film announced when the course is offered. Crosslisted as FILM 5010U.

THEA 5510U FILM AND LITERATURE**3-0-3**

Prerequisite: ENGL 2100 or PHIL 2201 or PHIL 2251

Relationship between film and literature with special emphasis on the adaptation of literature into film. Crosslisted as FILM 5510.

WBIT–GeorgiaWebBSIT**WBIT 1100 INTRODUCTION TO INFORMATION TECHNOLOGY****3-0-3**

Prerequisite: none.

This course is an introductory course in information technology. Topics include foundations in hardware, software, data and an overview of the use of information technology in organizations. Topics include structured programming techniques, systems development, database design and networking, with an emphasis on appropriate business ethics, interpersonal skills and team building.

WBIT 1310 PROGRAMMING AND PROBLEM SOLVING I**3-0-3**

Prerequisites: C or better in an Area A mathematics course and in WBIT 1100

This course helps students to develop basic problem-solving skills using the Java programming language. Students are introduced to fundamentals of Java programming language with emphasis on primitive data types, control structures, methods, arrays, classes, objects, abstraction, inheritance and polymorphism. Students learn basic techniques of good programming style, design, coding, debugging, and documentation. Students are able to create programs to solve basic practical problems.

WBIT 2000 THE ENTERPRISE AND INFORMATION TECHNOLOGY**3-0-3**

Prerequisite: WBIT 1100

This course will look at the structure and management of an information technology infrastructure. From the management aspect the course will touch on principles and practices of managing both people and technology to support an organization. The course will emphasize how to make an information technology infrastructure effective, efficient, and productive. The management of hardware, software, data, networks and other supporting IT functions will be studied.

WBIT 2300 DISCRETE MATH FOR INFORMATION TECHNOLOGY**3-0-3**

Prerequisites: MATH 1113

Discrete (as opposed to continuous) mathematics is of direct importance to the fields of Computer Science and Information Technology. This branch of mathematics includes studying areas such as set theory, logic, relations, graph theory, and analysis of algorithms. This course is intended to provide students with an understanding of these areas and their use in the fields of Computer Science and Information Technology.

WBIT 2311 PROGRAMMING AND PROBLEM SOLVING II**3-0-3**

Prerequisites: WBIT 1310 and WBIT 2300

The emphasis of this course is on advanced programming techniques in Java including GUI's, software reuse through component libraries, recursion, event-driven programming, database processing, file processing, and exception handling. Students are able to create event-driven, graphical programs or text-based programs solving practical problems incorporating databases and external files.

WBIT 3010 TECHNICAL COMMUNICATION**3-0-3**

Prerequisite: ENGL 1102

This course covers workplace communication at the intermediate level. Topics include audience analysis, research proposal and report writing, document and visual design, editing and presentation design.

WBIT 3110 SYSTEMS ANALYSIS AND DESIGN**3-0-3**

Prerequisites: WBIT 1310 and WBIT 2000

Introduces the fundamental principles of the design and analysis of IT applications. In this course, students will learn to apply the tools and techniques commonly used by systems analysts to build and document IT applications. Classical and structured tools for describing data flow, data structure, process flow, file design, input and output design, and program specification will be studied, as will object-oriented techniques.

WBIT 3111 INFORMATION TECHNOLOGY PROJECT MANAGEMENT**3-0-3**

Prerequisites: WBIT 3010, WBIT 3110 and MATH 2200

Project management techniques and tools as applied to information systems projects including resource and personnel management and allocation, product testing, scheduling, and project management software. Students will study examples of both successful and unsuccessful projects and apply lessons learned to a class project.

WBIT 3200 DATABASE DESIGN, DEVELOPMENT AND DEPLOYMENT**3-0-3**

Prerequisites: WBIT 2311

An advanced course in database design, development and deployment. Course emphasizes database design drawing distinctions between data modeling and process modeling using various modeling techniques including Entity-Relationship Modeling, Object Modeling and Data Flow Diagramming; database development using the relational model, normalization, and SQL; database deployment including control mechanisms, forms, reports, menus and web interfaces. Additional topics include procedures, functions, packages and triggers. Students will design, create and process a database to demonstrate competency in the course content.

WBIT 3400 INTRODUCTION TO DIGITAL MEDIA**3-0-3**

Prerequisite: WBIT 1100

This course covers the basic design principles and tools for creating and editing digital media components used in web-based systems; use of tools to create and edit graphics, sounds, and animations to be used in digital media presentations. Examples include graphics, animation, audio, video, virtual space and simulation.

WBIT 3410 WEB APPLICATIONS DEVELOPMENT**3-0-3**

Prerequisite: WBIT 1310

The course provides a survey of techniques and tools for developing basic web pages for delivery of text and graphic information; focus on page markup languages, client-side scripting, page design principles, page layout techniques, markup language syntax, and page styling methods.

WBIT 3500 ARCHITECTURE AND OPERATING SYSTEMS**3-0-3**

Prerequisite: WBIT 1310

This course introduces students to the architectures of computer systems and the operating systems that run on them. It explores and gives experience with some common computer designs and operating systems. Topics include basic computer architecture, instruction set architecture, memory, memory management, processes, and file systems.

WBIT 3510 DATA COMMUNICATIONS AND NETWORKING**3-0-3**

Prerequisite: WBIT 3500

This course covers computer network and communications concepts, principles, components, and practices; coverage of common networking standards, topologies, architectures, and protocols; design and operational issues surrounding network planning, configuration, monitoring, troubleshooting, and management.

WBIT 3600 INTRODUCTION TO E-COMMERCE**3-0-3**

Prerequisites: WBIT 3110 and WBIT 3410

The emphasis of this course is on basic principles and practices of E-business and E-commerce. Topics include infrastructures and applications of Ecommerce, E-Tailing, E-Marketing, advertisement, B2B, B2C, C2C, E-Government, M-Commerce, E-Learning, electronic payment systems, security, and legal issues. Students also learn to build simple dynamic Ecommerce sites using server-side scripting.

WBIT 4020 PROFESSIONAL PRACTICES AND ETHICS**3-0-3**

Prerequisite: Senior standing

This course covers historical, social, economic and legal considerations of information technology. It includes studies of professional codes of ethical conduct, philosophy of ethics, risk analysis, liability, responsibility, security, privacy, intellectual property, the internet and various laws that affect an information technology infrastructure.

WBIT 4030 SENIOR PROJECT**3-0-3**

Prerequisite: Senior Standing.

A capstone course for WebBSIT. Major students will be expected to complete a final team or individual project. The project may be an approved industry internship or a project developed and designed by faculty of the WebBSIT. Students will apply skills and knowledge from previous WebBSIT courses in project management, system design and development, digital media development, eCommerce, database design, and system integration.

WBIT 4112 SYSTEMS ACQUISITION, INTEGRATION AND IMPLEMENTATION**3-0-3**

Prerequisites: WBIT 3110, WBIT 3200, and WBIT 4520

Most IT applications used by organizations are configured from components that have been purchased from third-party vendors. This includes both hardware components and, increasingly, software components. In this course, students will study the component acquisition process, and methods and techniques for integrating these components into an existing IT infrastructure.

WBIT 4120 HUMAN-COMPUTER INTERACTION**3-0-3**

Prerequisite: WBIT 2311 and WBIT 3400

Fundamentals of human-machine interfaces, both cognitive and physical. Learning styles and effects of short-term memory on cognition and reaction will affect hardware and software development. Students will design a prototype interface.

WBIT 4520 INFORMATION ASSURANCE AND SECURITY**3-0-3**

Prerequisite: WBIT 3500

Pre- or Co-requisite: WBIT 3510

This course is an introduction to information assurance and security in computing. Topics include computer, network (distributed) system and cyber security, digital assets protection, data backup and disaster recovery, encryption, cryptography, computer virus, firewalls, terrorism and cyber crimes, legal, ethical and professional issues, risk management, information security design, implementation and maintenance.

WBIT 4601 CUSTOMER RELATIONSHIP MANAGEMENT**3-0-3**

Prerequisites: WBIT 3200, and WBIT 3600

The use of IT applications has allowed many organizations to collect large amounts of data on their clients and to apply such data to improve the relationships with their customers. In this course, students will study customer relationship management systems, including the reasons for their emergence, the functionalities that they provide and the issues one would have to face to successfully introduce a Customer Relationship Management System into an organization.

WBIT 4602 IT SEMINAR**3-0-3**

Prerequisites: WBIT 3111, WBIT 3200, WBIT 3600, and WBIT 4120

Students will participate in research and discussion on a topic of current interest. A term paper on the topic (or related subtopic) is required. A designated faculty member from the Consortium will select the topic in advance based on his/her expertise and lead the seminar.

WBIT 4610 IT POLICY AND LAW**3-0-3**

Prerequisite: WBIT 3600

This course will focus on the legal implications of conducting business in the information age. Topics will include current understanding of Internet contracts, copyright, trademark and patent law. Further, this course will examine cutting-edge cases relating to security, e-commerce and emerging ethical issues and trends.

ACCT – Accounting (Savannah State University)**ACCT 2101 PRINCIPLES OF FINANCIAL ACCOUNTING****3-0-3**

Prerequisites: MATH 1111 and CSCI 1130

A study of the underlying theory and application of financial accounting concepts.

ACCT 2102 PRINCIPLES OF MANAGERIAL ACCOUNTING**3-0-3**

Prerequisite: ACCT 2101

A study of the underlying theory and application of managerial accounting concepts.

LETC – Law Enforcement Training Center Courses**LETC 0071 BASIC LAW ENFORCEMENT SERVICES****6-1-5**

Prerequisite: admission to the basic law enforcement mandate training program

An introduction to the fundamentals of criminal investigation, crime scene processing, fingerprinting, law enforcement, report writing, interviews and interrogation, and ethics.

LETC 0072 BASIC LAW**5-0-5**

Prerequisite: admission to the basic law enforcement mandate training program

Georgia criminal justice system, Georgia law, rules of evidence, criminal procedures, and officer liability.

LETC 0073 BASIC LAW ENFORCEMENT PROCEDURES**5-V-5**

Prerequisite: admission to the basic law enforcement mandate training program

Topics include cultural diversity, police patrol, courtroom testimony, NCIC/GCIC communications and officer survival.

LETC 0074 BASIC TRAFFIC SERVICES**3-V-3**

Prerequisite: admission to the basic law enforcement mandate training program

Traffic enforcement, traffic control, motor vehicle law, and accident reporting.

LETC 0075 BASIC LAW ENFORCEMENT SKILLS**3-V-3**

Prerequisite: admission to the basic law enforcement mandate training program

Firearms, mechanics of arrest, first aid/CPR, stress reduction, and universal precautions.

LETC 0076 COMMUNITY RELATIONS**3-0-3**

Prerequisite: admission to the basic law enforcement mandate training program

Interpersonal communication skills, media relations, crisis intervention, community policing, crime prevention, hazardous materials, and mental retardation.

LETC 0077 LAW ENFORCEMENT PRACTICUM**0-V-6**

Prerequisite: admission to the basic law enforcement mandate training program

Performance-based training in the areas of firearms, crime scene processing, vehicle pullovers, fingerprinting, traffic direction and control, mechanics of arrest and booking procedures, critical incident management, hazardous materials, and law enforcement report writing.

MILS—Military Science Courses**MILS 1101 INTRODUCTION TO MILITARY SCIENCE AND SKILLS DEVELOPMENT****2-1-2**

Instruction provides a basic understanding of the U.S. Army and its role in National Defense. The course includes the following subjects: the role of the U.S. Army in national defense, organization and branches of the U.S. Army, ROTC and its role, customs and traditions of the service, military writing, implementing a personal physical fitness program, role of the ARNG and USAR, and roles of the commissioned and non-commissioned officer. Skills development includes instruction and practical exercises in basic mountaineering skills including knot tying, climbing, belaying, and rappelling. Acceptable as a P.E. requirement.

MILS 1102 BASIC MILITARY LEADERSHIP**2-1-2**

Development of critical military skills, leadership, and management techniques. Provides basic leadership techniques and principles, professional ethics, and senior subordinate relationships. One weekend field trip is required.

MILS 2001 EVOLUTION OF WARFARE**2-0-2**

Science and art of warfare as practiced by American military leaders from the French and Indian Wars through present times. The role of the U.S. Army is also examined in its social, economic, and political contexts.

MILS 2201 BASIC MILITARY SKILLS**2-1-2**

Instruction and practical exercises covering basic skills necessary as a future leader in the U.S. Army. Includes the following subjects: land navigation and map reading, basic first aid, survival, and communications.

MILS 2202 BASIC MILITARY TACTICS**2-1-2**

Instruction introduces students to the fundamentals of Army leadership and management techniques. Focus is placed on the mission, organization, and composition of small unit teams; principles of offensive and defensive operations stressing firepower, movement, and communications techniques; and introduction to troop leading procedures.

MILS 2250 LEADERS TRAINING COURSE (LTC)**V-V-5**

Intense summer program conducted at Ft. Knox, Kentucky for six weeks. Designed as an alternative method to meet the prerequisites of the advanced course for students who have had no basic course military science instruction.

MILS 3301 ADVANCED TACTICS AND APPLIED LEADERSHIP I**3-2-3**

Instruction on the principles of leadership and the leader's role in directing small units in a variety of tactical scenarios. Emphasis is placed on developing and executing orders, troop leading procedures, and squad tactical reaction procedures. Land navigation and communication subjects are also included in the course.

MILS 3302 ADVANCED TACTICS AND APPLIED LEADERSHIP II**3-2-3**

Continued instruction on the principles of leadership and the leaders' role in direction small units in a tactical environment. Emphasis is placed on offensive and defensive tactics, patrolling techniques, and conducting after action reviews. Instruction on management and leadership techniques emphasizes Green Tab Leadership and leadership assessment.

MILS 3350 ADVANCED MILITARY SKILLS PRACTICUM (LDAC)**V-V-5**

Practical application of military skills and leadership ability during a six week encampment experience. Encampment and training is conducted at Ft. Louis, WA. Instruction and evaluation done by U.S. Army ROTC Cadet Command.

MILS 4401 MILITARY LEADERSHIP AND MANAGEMENT SEMINAR**3-1-3**

Instruction covers U.S. Army Command and Staff functions. Military and professional knowledge topics include writing in the Army style, oral communications, conducting briefings, preparing to conduct training, and evaluating training.

MILS 4402 TRANSITION TO AN ARMY LIEUTENANT**3-1-3**

Instruction prepares MS IV cadets in their transition from cadet/student to commissioned officer. The course also covers Military Law, the Law of Land Warfare, and additional basic knowledge an individual needs to become a professional officer.

NSCI—Naval Science Courses**NSCI 1001 INTRODUCTION TO NAVAL SCIENCE****2-0-2**

Introduces midshipmen to NROTC Program mission, organization, regulations and broad warfare components of the naval service. Included is an overview of officer and enlisted rank and rating structure, training and education, promotion and advancement and retirement policies. This course also covers naval courtesy and customs, as well as a study of the organization of the naval service. Students are familiarized with the major challenges facing today's naval officers, especially, in the areas of leadership and human resources management.

NSCI 1002 SEAPOWERS AND MARITIME AFFAIRS**3-0-3**

A survey of American Naval and Maritime history from galley warfare to the present with emphasis on major developments. Attention will be focused on Mahan's geopolitical theory; economic and maritime forces; U.S. military and maritime strategy; and a comparative analysis of American and foreign maritime strategies.

NSCI 1003 SAILING**3-0-3**

Prerequisite: Certification as a third class swimmer

A foundation course that provides students with fundamental knowledge and skills to be competent crew members. The course covers the basic theory of sailing, nomenclature, seamanship, boat equipment and safety, and applicable inland waters navigation rules for sailing craft. Upon completion of this course, students will be Skipper "B" qualified. Practical skills to be mastered consist of rigging and sailing from a pier: sail to weather; sail two figure eight courses with two tacks and two jibes; man overboard maneuver; a capsize; return to dock and secure.

NSCI 2101 NAVAL SHIPS SYSTEMS I (ENGINEERING)**3-0-3**

A detailed study of ship characteristics and types, including ship design, hydrodynamic forces, stability, compartmentation, propulsion, electrical and auxiliary systems, interior communications, ship control and damage control. Basic concepts of the theory and design of steam, gas turbine and nuclear propulsion, shipboard safety and firefighting are also covered.

NSCI 2102 LEADERSHIP AND MANAGEMENT**3-0-3**

An introduction of management functions as they apply to routine daily military activities. The concepts of planning, organizing, staffing, directing, controlling and coordination are introduced and examined using lecture, seminar and case study methods. The course includes discussions on responsibility and accountability, power and influence, managerial theories, decision making, personnel appraisal, organizational structure and communications. Emphasis is placed on management of personnel and physical resources.

NSCI 3003, -4 NAVIGATION I AND II**2-2-3**

An in-depth study of piloting and celestial navigation theory, principles, and procedures, as well as the rules of the nautical road, ship employment and relative motion analysis. Students learn piloting navigation: the use of charts, visual and electronic aids, and the theory and operation of compasses. Students develop practical skills in piloting, celestial navigation, and relative motion analysis. Other topics include tides, currents, effects of wind and weather, use of navigational instruments, ship employment, types and characteristics of electronic navigation systems, naval command and control, and afloat naval communications.

NSCI 3101 EVOLUTION OF WARFARE**5-0-5**

This course traces the historic development of warfare from the dawn of recorded history to the present, focusing on the impact of major military theorists, strategists, tacticians, and technological developments. Students acquire a basic sense of strategy, development and understanding of military alternatives, and become aware of the impact of historical precedent on military thought and actions.

NSCI 4001 NAVAL SHIPS SYSTEMS II (WEAPONS)**3-0-3**

This course outlines the theory and employment of naval RADAR, SONAR, and weapons systems. Students explore the processes of detection, evaluation, threat analysis, weapon selection, delivery, guidance and naval ordnance. Fire control systems, major weapons types, and military platforms are discussed. The concept of command-control-communications and intelligence is explored as a means of weapons systems integration, as are space and electronic warfare.

NSCI 4050 NAVAL DRILL**0-2-0**

Introduces the student to basic military formations, movements, commands, courtesies and honors, and provides practice in unit leadership and management. Physical conditioning and training are provided to ensure students meet Navy/Marine Corps physical fitness standards. Successful completion of two semesters by NROTC students satisfies Savannah State University's physical education requirement. (NSCI 4050 is required every semester for all NROTC students.)

NSCI 4102 AMPHIBIOUS WARFARE**5-0-5**

A historical survey of the development of amphibious doctrine and the conduct of amphibious operations. Emphasis is placed on the evolution of amphibious warfare in the twentieth century, especially, during World War II. Present day, potential, amphibious operations and their limitations, including the rapid deployment force concept, will be discussed.

NSCI 4104 LEADERSHIP AND ETHICS**3-0-3**

A study of military leadership and management which investigates techniques and concepts of task accomplishment in the absence of a normative business environment. The course includes an examination of military law, ethical leadership, personal responsibility, authority and bureaucracy. The focus of discussion is on those aspects of leadership and management not normally present in civilian enterprise such as operation in the presence of hostility and morale management.

Faculty and Administration

Permanent, Full-Time Members of the Teaching Corps or Administrative Staff

This list includes only individuals who have faculty voting privileges. The number in parentheses after the names represents the initial year of employment at Armstrong Atlantic State University. An asterisk indicates full graduate faculty status.

Adams, Alice M. (2003)

Assistant Professor of Health Sciences
Ph.D., University of Alabama at Birmingham
M.S.H.A., University of Alabama at Birmingham
M.B.A., Tulane University
A.B., Duke University

Adams, David (2001)

Associate Professor of Health Sciences
Ph.D., University of Florida
M.P.H., Ohio State University of Medicine
M.A., Washington University - St. Louis
B.A., Emory University

Aenchbacher, Louis E., III (1980)

Athletic Director
Associate Professor of Physical Education
Ed.D., University of Georgia
M.Ed., University of Georgia
B.S., Armstrong State College

Alexander, Judith (2000)

Associate Professor of Nursing
D.N.S., Indiana University
M.S.N., Indiana University
B.N., University of Manitoba

Anderson, Gregory (1996)

Director, Academic Orientation and Advisement
Instructor of Education
M.Ed., University of South Carolina
B.A., Bridgewater State College

Anderson, James N. (1985)

Special Assistant to the Vice President for International Education
Professor of Music
Ph.D., University of Texas-Austin
M.M., University of Houston
B.M.E., Wichita State University

Anderson, Jewell (2006)

Reference Librarian
Assistant Professor of Library Science
M.L.I.S., University of South Carolina
B.S., Eastern Michigan University

Anderson, Lisa (2006)

Clinical Education Doordinator
Assistant Professor of Medical Technology
M.H.A., Armstrong Atlantic State University
B.S., Armstrong Atlantic State University

*** Andrews, Carol M. (1988)**

Associate Professor of English
Ph.D., Vanderbilt University
M.A., Vanderbilt University
B.A., Furman University

*** Arens, Olavi (1974)**

Professor of History
Ph.D., Columbia University
M.A., Columbia University
A.B., Harvard University

Awong-Taylor, Judy (1993)

Professor of Biology
Ph.D., University of Florida
M.S., University of Florida
B.S., University of the West Indies

Aziz, Hassan (2000)

Head of Medical Technology
Associate Professor of Medical Technology
Ph.D., University of Southern Mississippi
M.S., University of Southern Mississippi
B.S., Kuwait University

Bahrani, Azita (2003)

Assistant Professor of Information Technology
Ph.D., University of Missouri - Columbia
M.Ed., University of Missouri - Columbia
B.A., University of Teacher Education

Baird, William (2005)

Assistant Professor of Physics
Ph.D., University of South Carolina
B.A., Johns Hopkins University

*** Baker, Christopher P. (1994)**

Professor of English
Ph.D., University of North Carolina
M.A., University of North Carolina
B.A., St. Lawrence University

*** Barnard, Jane T. (1980)**

Associate Professor of Mathematics
Ed.S., Georgia Southern College
M.S., Georgia Southern College
B.S., Georgia Southern College

Belin, Charles W. Jr. (2006)

Assistant Professor of Biology
Ph.D., University of Rhode Island
M.S., Old Dominion University
B.S., Macalester College

*** Bennett, Katherine (1997)**

Professor of Criminal Justice
Ph.D., Sam Houston State University
M.C.J., University of South Carolina
B.S., University of South Carolina-
Spartanburg

Benton, Carol W. (2008)

Assistant Professor of Music Education
D.M.A., Shenandoah Conservatory
M.M., Virginia Commonwealth University
B.M.E., Virginia Commonwealth University

*** Bergin, Joyce (1992)**

Professor of Special and Adult Education
Ed.D., East Texas State University
M.Ed., William and Mary College
M.L.S., Texas Woman's University
B.A., Virginia Polytechnic Institute

Bevis, Rhonda Yvonne (2003)

Director of Clinical Education
Assistant Professor of Respiratory Therapy
Ed.D., University of Georgia
M.S., Georgia State University
B.A., Troy State University

Blossman, M. Ellen (1995)

Associate Professor of Spanish
Ph.D., Louisiana State University
M.A., Louisiana State University
B.A., Louisiana State University

Braswell, Lee (2002)

Coordinator, Radiation Therapy
Assistant Professor of Radiologic Sciences
M.P.H., Armstrong Atlantic State
University
B.A.S., Elon College
A.A.A., Pitt College

Brawner, James (1997)

Associate Professor of Mathematics
Ph.D., University of North Carolina-
Chapel Hill
B.A., Williams College

Brooks, Donna (1995)

Head of Communication Sciences and
Disorders
Associate Professor of Communication
Sciences and Disorders
Ph.D., Purdue University
M.A., Hampton Institute
B.S., Hampton Institute

*** Brush, Sabitra S. (1993)**

Associate Professor of Chemistry
Ph.D., Florida State University
M.S., Florida State University
B.S., University of the West Indies

Bryan, Richard A. (2008)

Assistant Professor of English
Ph.D., University of Tennessee
M.A., California State University, Fresno
B.A., California State University, Fresno

Bryant, Laurie R. (2003)

Assistant Professor of Dental Hygiene
B.S., Armstrong Atlantic State University
A.S., Armstrong Atlantic State University

Budden, Mark R. (2003)

Assistant Professor of Mathematics
Ph.D., University of Missouri-Columbia
M.A., University of Missouri-Columbia
B.S., Louisiana State University

Buelow, Janet R. (2007)

Associate Professor of Health Services
Administration
Ph.D., University of Illinois, Chicago
M.P.H., University of Illinois, Chicago
M.S.N., Loma Linda University
B.S., Loma Linda University

Burnett, N. Beth (2002)

Head of Technical Services
Assistant Professor of Library Science
M.L.I.S., University of Alabama -
Tuscaloosa
B.A., Auburn University

Butina, Michelle Montgomery (2004)

Assistant Professor of Medical Technology
M.S., Michigan State University
B.S., Winston-Salem State University

Caldwell, Eva (1987)

Associate Professor of Nursing
Ed.D., University of Georgia
M.S.N., Medical College of Georgia
B.S.N., Armstrong State College
D.I.P., Grady Memorial College

Campbell, Esma G. (2007)

Coordinator, Cardiovascular Interventional Track
Assistant Professor of Radiologic Sciences
M.P.H., Armstrong Atlantic State University
B.H.S., Armstrong Atlantic State University
A.A.S., Virginia Western Community College

Campbell, Myka (2004)

Coordinator, Diagnostic Medical Sonography Track
Instructor of Radiologic Sciences
M.Ed., Armstrong Atlantic State University
B.S., Medical College of Georgia
Certificate in Medical Sonography, Greenville Technical College
A.S., Medical College of Georgia

Carpenter, Suzanne (1988)

Associate Professor of Chemistry
M.S., University of North Carolina-Chapel Hill
B.S., Auburn University
A.A., Lake-Sumter Junior College

Cato, Thomas (1993)

Head of Art, Music & Theatre
Professor of Art
Ed.D., University of Georgia
M.Ed., Valdosta State College
B.F.A., Valdosta State College

Cebula, Richard (1999)

Eminent Scholar in Economics
Professor of Economics
Ph.D., Georgia State University
M.A., University of Georgia
A.B., Fordham College

Chang, Sungkon (2006)

Assistant Professor of Mathematics
Ph.D., University of Georgia
B.S., Kangwon National University, South Korea

Childress, Beth (1990)

Assistant Professor of Special and Adult Education
M.A., New York University
B.A., Temple University

Clancy, Frank M. (1989)

Assistant Professor of English
M.A., Villanova University
B.S., Villanova University

Clark, Maya R. (2006)

Assistant Professor of Communication Sciences and Disorders
Ph.D., University of Texas, Austin
M.A., The University of Memphis
B.A., The University of Mississippi

Coates, Cameron (2002)

Associate Professor of Engineering Studies
Ph.D., Georgia Institute of Technology
M.S., Georgia Institute of Technology
B.S.A.E., U. S. Naval Academy

*** Coberly, Patricia (1996)**

Professor of Adult Education
Ed.D., University of Arkansas
M.Ed., University of Arkansas
B.S., Arkansas Tech University

Collier, Alexander (2006)

Assistant Professor of Biology
Ph.D., Kent State University
B.S., Ohio University

Conroy, Shelley (2008)

Dean of Health Professions
Professor of Nursing
Ed.D., University of Central Florida
M.S.N., Virginia Commonwealth University
B.S.N., Virginia Commonwealth University

Cooke, Susan (2007)

Clinical Assistant Professor of Early Childhood Education
M.Ed., Lesley University
B.A., American University

*** Cooksey, Thomas L. (1987)**

Professor of English and Philosophy
Ph.D., University of Oregon
M.A., California Polytechnic State University
B.A., University of California

Coulton, Kimberly (2003)

Assistant Professor of Dental Hygiene
M.S., University of Washington
B.S., University of New Mexico
A.S., University of New Mexico

Craven, Kathryn (2003)

Associate Professor of Biology
Ph.D., Texas A & M University
B.A., University of Rhode Island

Crawford, Elizabeth (2007)

Assistant Professor of Early Childhood Education

Ph.D., The College of William and Mary
Ed.S., The University of Alabama
M.S., The Florida State University
B.A., The University of Georgia

*** Crosby, Joseph (1995)**

Professor of Health Sciences

Ph.D., University of Georgia
B.S., University of Georgia

da Cruz, Becky Kohler (2005)

Assistant Professor of Criminal Justice

J.D., University of Dayton
B.A., Wright State University

da Cruz, José de Arimateia (2003)

Associate Professor of Political Science

Ph.D., Miami University
M.A., Miami University
B.A., Wright State University

Daugherty, William (1997)

Associate Professor of Political Science

Ph.D., Claremont Graduate School
B.A., University of California-Irvine

*** Davies, George J. (2004)**

Professor of Physical Therapy

D.P.T., MGH Institute of Health Professions
M.Ed., The College of New Jersey (Trenton State College)
CERT, Columbia University
B.A., The College of New Jersey (Trenton State College)

Davis, Edward N. (2007)

Clinical Assistant Professor of Middle and Secondary Education

Ed.S., Armstrong State College
M.Ed., Armstrong State College
B.S., Tennessee Temple College

Deaver, William (1994)

Professor of Spanish

Ph.D., Florida State University
M.A., University of Virginia
B.A., University of Virginia

Desnoyers-Colas, Elizabeth (2005)

Assistant Professor of Communication

Ph.D., Regent University
M.A., Regent University
B.A., Central Washington University

Donahue, Michael E. (1993)

Vice President for External Affairs

Professor of Criminal Justice

Ph.D., Michigan State University
M.S., University of South Carolina
B.A., University of North Carolina-Charlotte

Dubus, Julia H. (1990)

Assistant University Librarian

Head of Reference and Library Instruction

Assistant Professor of Library Science

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Wheeler, David (2005)

Head of Languages, Literature and
Philosophy
Professor of English
Ph.D., University of Virginia
M.A., University of Chicago
B.A., University of Illinois,
Urbana-Champaign

*** White, Nancy A. (1994)**

Professor of History
Ph.D., American University
M.A., American University
B.A., Mount Holyoke College

Whitford, Ellen V. (2006)

Vice President and Dean of Faculty
Professor of Education
Ed.D., Rutgers, The State University of
New Jersey
M.Ed., Arcadia University
B.A., University of Delaware

Williams, Learoetha (2004)

Assistant Professor of History
Ph.D., Florida State University
M.A., Florida State University
B.S., Florida State University

Wilson, C. Annette (2006)

Assistant Professor of Middle and Secondary
Education
Ed.D., East Tennessee State University
M.A., Appalachian State University
B.S., Appalachian State University

Wilson, Zaphon R. (2004)

Head of Criminal Justice, Social and
Political Science
Associate Professor of Political Science
Ph.D., The Atlanta University
M.A., Appalachian State University
B.A., Appalachian State University

*** Wimer, Gregory (1994)**

Associate Professor of Physical Education
Ph.D., Ohio State University
M.S., University of South Carolina
B.S., University of South Carolina

*** Winterhalter, Teresa (1994)**

Professor of English
Ph.D., University of Rochester
M.A., University of Rochester
M.A., State University of New York-
Cortland
B.A., State University of New York-
Brockport

Wolfe, Wendy L. (2006)

Assistant Professor of Psychology
Ph.D., Syracuse University
M.S., Syracuse University
B.A., University of North Carolina-
Wilmington

Wong, Jane (2002)

Head of Psychology
Professor of Psychology
Ph.D., Northern Illinois University
M.A., Northern Illinois University
B.A., Loyola University

*** Wright, Linda (1995)**

Professor of Health Sciences
Ph.D., Texas Tech University
M.S.P.T., Armstrong Atlantic State
University
B.S., Eastern New Mexico University

Wynn, Gail G. (1992)

Assistant Professor of Biology
Ph.D., Louisiana State University
M.S., Louisiana State University
B.S., Oglethorpe University

Yang, Hongxia (2005)

Library Instructional Technology Specialist
Assistant Professor of Library Science
M.S., University of Southern Mississippi
M.L.I.S., University of Southern
Mississippi
B.A., Hebei Teachers University

Zettler, Jennifer (2002)

Associate Professor of Biology
Ph.D., Clemson University
M.S., Clemson University
B.S., University of Florida

Zhang, Hong (2002)

Professor of Computer Science
Ph.D., University of Pittsburgh
M.A., University of Pittsburgh
M.S.E.E., University of Pittsburgh
B.S., Fudan University

Zhu, Lei (2003)

Assistant Professor of Information
Technology
Ph.D., State University of New York-
Buffalo
M.S., Peking University, China
B.S., Peking University, China

Zipperer, William C. (1991)

Associate Professor of Chemistry
Ph.D., University of Georgia
B.S., University of Georgia

Officers of Administration at Armstrong Atlantic State University

Dr. Thomas Z. Jones	President
Dr. Ellen V. Whitford	Vice President and Dean of Faculty
Mr. David L. Carson	Vice President for Business and Finance
Dr. Michael Donahue	Vice President for External Affairs
Dr. Vicki L. McNeil	Vice President for Student Affairs
Dr. William L. Megathlin	Assistant to the President for Strategic Initiatives
Dr. Dennis Murphy	Associate Vice President for Academic Affairs
Dr. L. Russell Watjen	Associate Vice President for Enrollment Management
Vacant	Assistant Vice President for Business and Finance
Ms. Letty Shearer	Assistant Vice President for External Affairs, Economic and Community Development
Mr. William Kelso	Assistant Vice President for Student Affairs
Dr. James Anderson	Special Assistant to the Vice President for International Education
Dr. Patricia B. Wachholz	Dean, College of Education
Dr. Shelley Conroy	Dean, College of Health Professions
Dr. Mark Finlay	Interim Dean, College of Liberal Arts
Dr. George Shields	Dean, College of Science and Technology
Vacant	Interim Assistant Dean, College of Education
Dr. Barbara Tanenbaum	Interim Assistant Dean, College of Health Professions
Dr. H. Elizabeth Howells	Interim Assistant Dean, College of Liberal Arts
Dr. Stephen Jodis	Assistant Dean, College of Science and Technology
Mr. Douglas R. Frazier	University Librarian
Vacant	Registrar
Mr. John McGuthry	Director, Computer and Information Services/Chief Information Officer
Mr. Greg Anderson	Director, Academic Orientation and Advisement
Ms. Susan Norton	Director, Accounting and Fiscal Affairs
Ms. Ana Edwards	Director, Admissions
Ms. Terral Harris	Director, Advancement Services
Ms. Wynn Sullivan	Director, Armstrong Center for Professional and Continuing Education and Center for Justice Administration
Dr. Eddie Aenchbacher	Director, Athletics
Dr. Kenneth M. Fields	Director, Brunswick Center Teacher Education Program
Ms. Barbara Myers	Director, Career Services
Dr. Beth Howells	Director, Composition
Mr. John Mitchell	Director, Counseling and Volunteer Services
Ms. Melanie Mirande	Director, Customer Relations
Mr. Randall Grubb	Director, Cyber Security
Ms. Gail Rountree	Director, Development
Ms. Amelia Castilian-Moore	Director, Disability Services
Ms. Letty Shearer	Director, Economic and Community Development
Ms. Diana Anderson	Director, Elderhostel
Dr. Richard Nordquist	Director, Faculty Development and Liberal Studies
Ms. Laura Caputo	Director, Field Experiences, Clinical Practice and Partnerships
Ms. Lee Ann Kirkland	Director, Financial Aid
Ms. Jill Bell	Director, Graduate Studies
Dr. Jonathan Roberts	Director, Honors Program
Mr. Corey Reedy	Director, Housing and Residence Life
Ms. Rebecca Carroll	Director, Human Resources, Payroll, and Budgets
Mr. Andy T. Clark	Director, Institutional Research
Ms. Elizabeth Sams	Director, Legal Relations
Dr. Joseph Weaver	Director, Liberty Center
Dr. Michael Snowden	Director, Minority Affairs
Mr. David Faircloth	Director, Plant Operations
Ms. Jo Parrott	Director, Business and Auxiliary Services
Mr. Mack Seckinger	Director, Public Safety
Ms. Nan Davis	Director, Recreation and Wellness



Ms. Stephanie Whaley Director, Recruiting
Mr. Al Harris Director, Student Activities
Mr. Barry Ostrow Director, University Relations
Dr. Deborah Reese Director, Writing Center



Emeriti Faculty

Adams, Joseph V. (1970-1997)
Professor of Psychology and Dean of Arts and Sciences Emeritus

Agyekum, Stephen K. (1979-2007)
Professor of Early Childhood Education Emeritus

Anderson, Donald D. (1966-1992)
Dean of Community Services and Registrar Emeritus

Beumer, Ron (1975-2004)
Professor of Biology Emeritus

Brewer, John G. (1968-1998)
Professor of Chemistry Emeritus

Brower, Moonyean (1967-1995)
Associate Professor of Biology Emerita

Brown, George (1972-2003)
Assistant Professor of Criminal Justice Emeritus

Buck, Joseph A. III (1971-2004)
Vice President of Student Affairs Emeritus

Butler, Frank A. (1985-2001)
Vice President and Dean of Faculty and Professor of Physics Emeritus

Chenault, George (1992-2002)
Associate Professor of Education Emeritus

Cochran, John (1979-1991)
Associate Professor of Education Emeritus

Conway, Marian A. (1986-2000)
Assistant Professor of Nursing Emerita

Cross, Deanna S. (1989-2006)
Professor of Nursing Emerita

Davenport, Leslie B., Jr. (1958-1983)
Professor of Biology Emeritus

Douglass, W. Keith (1970-2006)
Professor of Psychology Emeritus

Duncan, John (1965-1997)
Professor of History Emeritus

Findeis, John (1968-1995)
Assistant Professor of Mathematics Emeritus

Gadsden, Ida (1956-1981)
Professor of Education Emerita

Gross, Jimmie (1967-1997)
Professor of History Emeritus

Hansen, John (1967-2002)
Professor of Mathematics Emeritus

Harris, Henry (1966-2002)
Professor of Chemistry Emeritus

Harris, Karl (1971-1998)
Assistant Professor of English Emeritus

Hudson, Anne (1971-1997)
Professor of Mathematics Emerita

Hudson, Sigmund (1985-1997)
Professor of Computer Science Emeritus

Jenkins, Marvin (1968-1997)
Assistant Professor of English Emeritus

Kearnes, John (1988-2007)
Associate Professor of Political Science Emeritus

Kilhefner, Dale Z. (1973-2007)
Professor of Mathematics Emeritus

Killorin, Joseph I. (1947-1988)
Professor of Philosophy & Literature Emeritus

Lane, Joseph (1970-2001)
Professor of Psychology Emeritus

Lanier, Osmos (1965-1997)
Professor of History Emeritus

Lawson, Cornelia (1972-1987)
Professor of Education Emerita

Magnus, Robert E. (1973-1991)
Professor of Criminal Justice Emeritus

Martin, Grace (1980-2002)
Professor of Psychology Emerita

Megathlin, William L. (1971- 2004)
Professor of Criminal Justice Emeritus

Munson, Richard (1972-2003)
Professor of Mathematics Emeritus

Newberry, S. Lloyd (1968-2000)
Professor of Science Education and Dean of Education Emeritus

Palefsky, Elliot (1971-2004)
Professor of Psychology Emeritus

Patterson, Robert (1966-1998)

Professor of History Emeritus

Pendexter, Hugh III (1965-1983)

Professor of English Emeritus

Pingel, Allen L. (1969-1992)

Professor of Biology Emeritus

Propst, H. Dean (1969-1979)Professor of English and Vice President and
Dean of Faculty Emeritus**Pruden, George (1982-2002)**

Professor of History Emeritus

Relyea, Kenneth G. (1990-2006)

Professor of Biology Emeritus

Repella, James F. (1976-2001)Professor of Nursing and Dean of Health
Professions Emeritus**Rhee, Steve (1974-2003)**

Professor of Political Science Emeritus

Robinson, Aurelia (1972-1986)

Associate Professor of Education Emerita

Sartor, Herman (1964-1981)

Professor of Education Emeritus

Schollaert, Warren (1989-2001)

Associate Professor of Education Emeritus

Shipley, Charles (1972-2005)

Professor of Computer Science Emeritus

Simon, Emma (1974-2002)Professor of Health Science and Dean of
Graduate Studies Emerita**Sims, Roy Jesse (1955-1990)**

Professor of Physical Education Emeritus

Stephens, Jacquelyn (1979-1990)

Professor of Education Emerita

Stratton, Cedric (1965-1993)

Professor of Chemistry Emeritus

Stone, Janet D. (1975-2007)

Associate Professor of History Emerita

Strozier, Robert (1955-1959; 1965-1995)

Professor of English Emeritus

Suchower, John (1969-1992)

Assistant Professor of Drama Emeritus

Tapp, Lawrence (1959-1994)

Professor of Physical Education Emeritus

Welsh, John (1967-2000)

Assistant Professor of English Emeritus

White, Virginia (1967-1991)

Assistant Professor of English Emerita

Whiten, Morris (1970-2001)

Professor of Physics Emeritus

Williamson, Jane (1976-2000)

Assistant Professor of Nursing Emeritus

Winn, William (1957-1971)

Professor of Mathematics Emeritus

Worthington, Clarke Stuart (1967-1993)

Professor of Psychology Emeritus

University System of Georgia Organization

Board of Regents

James A. Bishop	First
Doreen Stiles Poitevint	Second
Allan Vigil (chair)	Third
Wanda Yancey Rodwell	Fourth
Elridge W. McMillan	Fifth
Kessel Stelling, Jr.	Sixth
Richard L. Tucker	Seventh
W. Mansfield Jennings, Jr.	Eighth
James R. Jolly	Ninth
William NeSmith, Jr.	Tenth
Willis J. Potts	Eleventh
Benjamin J. Tarbutton, III	Twelfth
Kenneth R. Bernard, Jr.	Thirteenth
Hugh A. Carter, Jr.	At-Large
William H. Cleveland (vice chair)	At-Large
Robert F. Hatcher	At-Large
Felton Jenkins	At-Large
Donald M. Leebern, Jr.	At-Large

Administrative Personnel

Erroll B. Davis, Jr.	Chancellor
Rob Watts	Chief Operating Officer
Susan Herbst	Chief Academic Officer & Executive Vice Chancellor
Melinda Spencer	Chief of Staff, Academic Affairs
Thomas E. Daniel	Senior Vice Chancellor, Office of External Affairs
Daniel W. Rahn	Senior Vice Chancellor, Health and Medical Programs & President, Medical College of Georgia
Sandra Stone	Vice Chancellor, Academic Planning and Programs
Linda M. Daniels	Vice Chancellor, Facilities
Usha Ramachandran	Interim Vice Chancellor, Fiscal Affairs
Wayne Guthrie	Vice Chancellor for Human Resources
Tom Maier	Vice Chancellor, Information & Instructional Technology/CIO
J. Burns Newsome	Vice Chancellor, Legal Affairs & Secretary to the Board
Jan Kettlewell	Vice Chancellor, P-16 Initiatives & Exec. Dir. USG Foundation
Cathie M. Hudson	Vice Chancellor, Research & Policy Analysis
Ronald B. Stark	Chief Audit Officer and Associate Vice Chancellor, Internal Audit
John Grovenstein	Associate Vice Chancellor for Life and Health Benefits
Kris Biesinger	Associate Vice Chancellor, OIIT Services
Reid Christenberry	Associate Vice Chancellor, OIIT Operations
John Millsaps	Associate Vice Chancellor, Media & Publications
Shelley C. Nickel	Associate Vice Chancellor for Planning & Implementation
Tonya Lam	Associate Vice Chancellor for Student Affairs

University System of Georgia
270 Washington Street, SW
Atlanta, GA 30334

Institutions of the University System of Georgia

Research Universities

Athens 30602 University of Georgia-h; B,J,M,S,D Atlanta 30332 Georgia Institute of Technology-h; B,M,D	Atlanta 30303 Georgia State University-A,B,J,M,S,D Augusta 30912 Medical College of Georgia-h; A,B,M,D
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Regional Universities

Statesboro 30460 Georgia Southern University-h; A,B,M,S	Valdosta 31698 Valdosta State University-h; A,B,M,S,cD
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State Universities

Albany 31705 Albany State University-h; B,M Americus 31709 Georgia Southwestern State University-h; A,B,M,S Augusta 30910 Augusta State University-A,B,M,S Carrollton 30118 University of West Georgia-h; A,B,M,S Columbus 31993 Columbus State University-A,B,M,S Dahlonega 30597 North Georgia College and State University-h; A,B,M Fort Valley 31030 Fort Valley State University-h; A,B,M	Kennesaw 30144 Kennesaw State University-A,B Marietta 30060 Southern Polytechnic State University-h; A,B,M Milledgeville 31061 Georgia College and State University-h; A,B,M,S Morrow 30260 Clayton State University-A,B Savannah 31419 Armstrong Atlantic State University-h; A,B,M Savannah 31404 Savannah State University-h; A,B,M
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State Colleges

Barnesville 30204 Gordon College-h; A Cochran 31014 Middle Georgia College-h; A Dalton 30720 Dalton State College-A,B Gainesville 30503 Gainesville State College-A	Lawrenceville 30043 Georgia Gwinnett College-A,B Macon 31297 Macon State College-A,B Tifton 31793 Abraham Baldwin Agri. College-h; A
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Two-Year Colleges

Albany 31707 Darton College-A Atlanta 30310 Atlanta Metropolitan College-A Bainbridge 31717 Bainbridge College-A Brunswick 31523 Coastal Georgia Community College-A Decatur 30034 Georgia Perimeter College-A	Douglas 31533 South Georgia College-h; A Rome 30163 Georgia Highlands College-A Swainsboro 30401 East Georgia College-A Waycross 31501 Waycross College-A
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Independent Research Unit

Savannah 31411
 Skidaway Institute of Oceanography

h - On-Campus Student Housing Facilities. Degrees Awarded: A -Associate; B - Baccalaureate;
 J - Juris Doctor; M - Masters; S - Specialist in Education; D - Doctorate;
 cD - Doctorate offered in cooperation with a University System university,
 with degree awarded by the university.

GLOSSARY OF TERMS

academic advisement: a process which assists students in clarifying their educational, career, and life goals. Faculty and staff advisors help students develop goals, plan all academic course work and other educational experiences. Students are required to meet with academic advisors at least once every semester but are encouraged to visit more often.

academic probation: a status that indicates a student is not maintaining the required minimum GPA. The first time a student falls below the required GPA he or she is placed on good standing with warning. Failure to raise the adjusted GPA to the required level during the next term will result in academic probation.

academic suspension: status given to students on academic probation who neither achieve the required adjusted GPA nor earn at least a 2.0 grade point average during the probationary period. Such students will need to appeal to continue attending the university.

advanced placement: eligibility to enroll in courses beyond the entry level through transfer credit or examination.

accredited: a designation that an institution has been evaluated and met criteria set by an independent oversight agency. For example, the Commission on Colleges of the Southern Association of Colleges and Schools rules on accreditation for Armstrong Atlantic State University.

ACT-American College Testing: a standardized exam that tests verbal and math skills.

add (a class): students may sign up for another class after their initial registration.

adjusted GPA: the total honor points earned divided by the total hours attempted, with hours and honors points for repeated courses not duplicated in the calculation (see GPA). Includes transfer hours credited to the student's course of study at Armstrong Atlantic.

advance registration: an early registration period available to currently enrolled students. Also known as pre-registration.

area of concentration: a part of the course of study required for the bachelor of liberal studies degree; any minor approved by the Board of Regents may be chosen.

associate of arts (AA) or associate of science (AS) degree program: two years (full-time) of study that completes a student's core curriculum requirements.

associate of applied science (AAS) degree program: two years (full-time) of study in a specific discipline.

auditing: attending a class without receiving credit. Students must be enrolled, receive permission from the instructor, declare audit status at the time of registration, and pay the tuition and fees for the class.

baccalaureate: a program of study lasting four years (full-time) consisting of two years of core curriculum and two years of courses in an area of specialization or major (see bachelor of arts/ bachelor of science degree programs).

bachelor of arts (BA) or bachelor of science (BS) degree program: four years (full-time) of study consisting of two years of core curriculum and two years of courses in an area of specialization or major, also referred to as a bachelor's or baccalaureate degree.

Board of Regents: the governing board of the University System of Georgia.

certificate programs: a course of study, shorter than a degree, leading to certification in a specific field. May be on a pre-or post-baccalaureate level, depending on field.

challenge exams: available only for specific courses, usually for students who have experience in a specific field. Students passing this type of exam would be exempt from certain classes.

classification: a term based on the number of credit hours earned to classify a student at the freshman, sophomore, junior or senior level.

CLEP - College Level Examination Program: a standardized test used to determine proficiency in a specific area of study. If AASU students score at a certain level on a CLEP test accepted by the university, they will receive credit for a class in that subject area. In some areas, students will be required to pass a higher level course with a minimum grade before CLEP credit is given.

CPC - College Preparatory Curriculum: a high school course of study required of all students graduating from high school within the past five years. Course requirements include English, math, science, social sciences, and foreign languages. CPC requirements apply to students with a GED who would have graduated within the same time frame.

CPE - College Placement Exam: establishes students' proficiency levels in reading, English and math. Based on the scores received, students may be required to take learning support courses. This exam is given to students before their first semester.

core curriculum: a broad course of study required of all students pursuing a bachelor's degree. Courses come from the areas of the humanities, social sciences, math, and natural sciences for a total of 60 semester hours.

corequisite: a course required to be taken at the same time as another course. Corequisites are listed in the catalog under course descriptions.

Dean's List: an announcement at the end of each semester listing those students enrolled for at least 10 semester hours who have earned at least a 3.6 honor point average. Only course work taken at Armstrong Atlantic will be used in the computation of Dean's List honors.

delayed admission: admission status of students who have not attended high school or college within the last five years and have earned fewer than 20 transferable credits. These applicants are not required to take the SAT or ACT, but will take the CPE.

drop (a class): students deciding to withdraw from a class or classes must follow an established procedure in order to obtain any refunds due to them and avoid academic penalties. See also withdrawal.

early admission: a program for high school students who have not completed the eleventh grade, but who have demonstrated outstanding academic potential.

elective: a course which is related to the courses in a major or which counts as general credit toward a degree.

exit exams: exams given by a department to graduating seniors to determine minimum levels of competency in the major subject area.

freshman: student who has earned fewer than 30 semester hours.

freshman index: computed using SAT scores and the high school grade point average only on CPC units required for admission.

full-time: students taking 12 or more semester hours of classes.

GED - General Education Development: an equivalent to the high school diploma; students must submit official GED scores for admission.

good standing: a status that indicates students are maintaining the required minimum GPA.

good standing with warning: status given to students whose GPA falls below the required GPA for the first time.

GPA - grade point average: a point system used to determine the average of all grades a student has received for one term or for an entire college career. To determine GPA, honor points awarded based on each grade received are totaled then divided by the number of hours attempted.

graduate work: refers to any studies done toward a master's or doctoral degree.

GRE - Graduate Record Exam: standardized exams that test verbal, quantitative, and analytical skills, usually used as part of the admissions process for graduate school. GRE subject exams are also available, and sometimes used for graduate admissions.

GTREP - Georgia Tech Regional Engineering Program: students in the Savannah area may obtain all courses needed, either in traditional classes or by distance learning, for Georgia Tech degrees in computer and civil engineering.

honor points: the points earned based on the letter grade and semester hours credited for a course. Used to determine GPA.

independent study: classes that permit students to pursue individual research and reading in their major field. Permission from the department head or the professor is required.

in-state tuition: rate of tuition paid by Georgia residents.

internship: work in a firm or agency related to a student's major program and/or career plans.

intramurals: organized competitive sports activities coordinated through the Department of Health and Physical Education. Open to all interested students.

joint enrollment: a program for high school students who have completed the tenth grade and have demonstrated outstanding academic potential. This program allows students to enroll full-time at the university while remaining on the rolls of a local high school. At the end of their freshman year students receive their high school diploma.

junior: student who has earned between 60 and 89 semester hours.

major: an area of concentrated study in a degree program approved by the Board of Regents. For a major program, a department will require 60 semester hours of specific courses or approved elective courses in related fields.

master's (MA, MS, MEd, MPH, etc.) degree program: two years (full-time) of study in a specific area of specialization. This degree is attempted after a bachelor's degree and may require an in-depth research paper or thesis for completion of the degree.

minor: an optional course of study chosen in addition to a major consisting of 15-18 specified semester hours in an area of study different from the student's major. Minors are approved by the Board of Regents.

Navigate Armstrong: an orientation program held for new students. CHAOS leaders are students who have been trained to present these orientation sessions.

out-of-state tuition: rate of tuition paid by students who are not legal residents of Georgia.

part-time: students taking fewer than 12 semester hours of classes.

portfolio: a collection of work (e.g., paintings, writings, etc.) which may be used to demonstrate competency in an academic area.

pre-professional programs: courses appropriate for the first two years of baccalaureate programs not offered among degree programs here at the university, such as business, engineering, forestry, and pharmacy. Also includes study appropriate for dentistry, law, medicine, veterinary medicine and other professional fields.

pre-registration: an early registration period available to currently enrolled students. Also known as advance registration.

prerequisite: a course required before a more advanced course may be taken. Prerequisites are listed in the catalog under course descriptions.

programs of study: refers to specific majors or areas of study, usually leading to a degree.

readmission: students who have attended Armstrong Atlantic in the past, but have not taken classes at the university for three or more terms, not including the summer term.

Regents' Test: an exam measuring minimum writing and reading skills given to all students in the University System of Georgia. At Armstrong Atlantic, this exam is required after a student has completed 30 semester hours.

registration: a time to enroll for specific classes for the upcoming term. Regular registration is held the day before classes begin each term.

regular admission: admission status for students who, upon entrance to the university, have the required standardized test scores (SAT verbal 460/SAT math 430 or ACT English 20/ACT math 18), required grade point average (2.0), have completed the required college prep curriculum (see CPC), and have not been out of high school more than four years. This status will be awarded to other students upon completing 18 hours of credit with a 2.0 grade point average.

residency: students are considered residents of Georgia if they have lived in Georgia at least one year and consider Georgia their home. Students who have not lived in Georgia for one year or who are just coming to Georgia for their education and plan to move back to another state after graduation are not considered residents.

RETP - Regents Engineering Transfer Program: students transfer to Georgia Tech in Atlanta after successfully completing a two-year pre-engineering curriculum at Armstrong Atlantic.

ROTC - Reserve Officer Training Corps: a curriculum available at Armstrong Atlantic and Savannah State that qualifies students for commissions as officers in the US Army, Army Reserves, US Navy, Naval Reserves or US National Guard after graduation.

SAT 1 - a standardized exam that tests verbal and math skills. Scores are used to determine admission status for freshmen.

semester hours: the approximate number of hours spent each week in a particular class. Also used to determine the total number of hours students register for.

semester system: a school term based on approximately 15 weeks, including two regular sessions each year plus a shorter summer session.

senior: student who has earned 90 or more semester hours.

short course: a continuing education course that does not award college credit though it may award continuing education units.

sophomore: student who has earned between 30 and 59 semester hours.

transcript: an official record of all courses taken at a particular institution. An official transcript is a transcript sent directly from one institution to another; a student copy is a transcript issued to students.

transfer: students seeking admission who have previously been enrolled at another institution of higher education.

transfer credit: credit for courses taken at another institution. Granting credit will be considered only for course work from an accredited institution.

transient: admission status of students currently enrolled at another institution applying for temporary admission to Armstrong Atlantic for one term. Students must be in good standing at their home institution, and have written permission from their dean or registrar to take specific courses at Armstrong Atlantic which may be transferred to their home institution.

University System of Georgia: the overall system of public higher education in Georgia, comprised of 5 universities, 14 senior colleges and 15 junior colleges.

withdrawal: the act of dropping out of the university completely; the date of the withdrawal determines any fee refund or grade penalty.

Appendix I

Honor Code and Code of Conduct

Armstrong Atlantic State University exists to provide an environment in which intellectual achievement, scholarship, and character development can flourish. The AASU community — students, faculty, administration, and staff — willingly shares the responsibility for sustaining a creative and productive atmosphere through adherence to the highest standards of personal and professional conduct. All who are privileged to be a part of AASU campus life must remain cognizant that they are representatives of Armstrong Atlantic State University, whether they are on campus or elsewhere, and are therefore expected to avoid behavior which brings discredit or dishonor upon themselves or to the University as an institution. Recognizing that trust is the cornerstone of all human relations, students will work to build and sustain the trust of their peers, the faculty, and the administration by obeying both the letter and the spirit of the Honor Code and the Code of Conduct.

Student Responsibilities

At each registration, students must agree to abide by the rules of the Honor Code and the Code of Conduct. The Honor Code and Code of Conduct shall be printed in the AASU Catalog, in *Students Illustrated*, and on the University website.

It will be the responsibility of the Student Court or its designated representative to conduct an orientation program at the beginning of each semester for all new students to explain the Codes and allow discussion of the requirements for each Code. Any student desiring assistance with any matter related to these Codes is invited to seek assistance in the Division of Student Affairs.

Students are expected to:

1. Exercise honesty in all matters, both academic and personal in nature.
2. Be fair and courteous with others, treat them fairly and with respect, showing sensitivity to cultural, ethnic, and religious diversity, and personal dignity.
3. Accept personal responsibility for appropriate behavior as defined by the Codes.
4. Know the offenses under each Code and the penalties for violating them.
5. Understand that they are responsible for knowing and following any additional written or verbal requirements given by the professor which relate to honor or conduct and which are inherent to the classroom or University functions.
6. Know what plagiarism is, as defined under the Honor Code; recognize that it undermines individual and academic integrity; and ensure that it is avoided in both spirit and deed.
7. Understand that the Codes apply at all University activities whether on the main campus or at other locations.
8. Remember that they are representatives of Armstrong Atlantic State University and that they must always conduct themselves in a manner which brings credit upon themselves and the University.

Faculty Commitments

In accordance with the University Mission Statement, the faculty is responsible for providing an atmosphere that fosters excellence in learning and student achievement. Faculty responsibilities to the University are detailed in the AASU Faculty Handbook in Article VII of the Regulations. Other relevant provisions of the Faculty Handbook are as follows:

1. The primary responsibility of a faculty member is the advancement of knowledge through teaching and scholarship. The faculty member is therefore committed to the development and improvement of scholarly competence both in self and in students. (Regulations, Art. III: Principles of Conduct; Sect. A, Para 1.)
2. As a teacher, the faculty member encourages the free pursuit of learning in each student. The teacher exemplifies to students the highest standards of scholarship and integrity and encourages student adherence to such standards. Recognizing the individual worth of each student, the

teacher respects the confidential nature of the student-teacher relationship and makes every effort to ensure that any evaluation reflects the true merit of the student. Although the teacher may have subsidiary interests, these interests should never hamper or compromise his or her responsibility to students. (Regulations, Art. III: Principles of Conduct; Sect. A, Para 2.)

3. Academic dishonesty of any kind (giving or receiving unauthorized help on any assignment, test, or paper) is considered a violation of the Honor Code. At the beginning of each term it shall be the responsibility of each teacher to make clear what shall be considered unauthorized help in each course. (Regulations, Art. VI: Faculty-Student Relations; Sect.A).

Additionally, the Faculty is committed to:

1. Reinforcing a sense of honesty and integrity in students; setting an example by treating all students with fairness and courtesy; and respecting diversity in all its forms.
2. Providing clear instructions in written format (e.g., in the syllabus) for each course as to what constitutes violations of the Codes. Additional or supplemental verbal instructions that clarify assignments may be provided at the prerogative of the professor.
3. Designing examinations and assignments that fairly and reasonably measure the student's level of knowledge; and using examinations as teaching tools as well as evaluation mechanisms.
4. Using examination formats that provide clear instructions and supervision as appropriate for examinations and assessments.
5. Communicating to all students they are expected to know, understand, and adhere to the Honor Code and Code of Conduct

I. General Policies

- A. The University is dedicated not only to learning and the advancement of knowledge, but also to the development of ethically sensitive and responsible persons. It seeks to achieve these goals through sound educational programs and policies governing student conduct that encourage independence and maturity.
- B. The University may apply sanctions or take other appropriate action when student conduct interferes with the University's (a) primary responsibility of ensuring the opportunity for attainment of educational objectives, or (b) subsidiary responsibility of protecting property, keeping records, providing services and sponsoring non-classroom activities such as lectures, concerts, athletic events and social functions.
- C. Student representatives shall have an opportunity to participate in the formation and evaluation of all policies, rules, and sanctions pertaining to student conduct.
- D. Honor offenses discussed in this Code are not considered to be all-inclusive; each Department or College may also promulgate course- or discipline-specific Honor Code violations supplementing the University Code. Such offenses shall be adjudicated according to the University Code.
- E. These rules and procedures apply to all students enrolled in AASU courses, regardless of the location or training site at which the course or learning experience is conducted.
- F. Some Departments may have additional rules or standards beyond this Code that apply to all students within the Department. It is each student's responsibility to learn and abide by their respective Department's separate Code, in addition to the AASU Code.

II. Honor Offenses

- A. Honor offenses may be of two kinds: (a) general violations and (b) specific course- or discipline-related problems as identified by individual instructors. General Violations fall under four categories: Plagiarism, Cheating, Fabrication, and Facilitating Academic Dishonesty.*
- B. *Plagiarism* is the intentional offering of the words, ideas, or computer data, programs and/or graphics of others for one's own in any academic exercise. Examples of plagiarism include (but are not limited to):
 1. The offering of another's work, whether verbatim or paraphrased, as original material in an academic paper;

*These definitions are drawn from the publication Code of Academic Conduct, prepared by Gary Pavela (1988)

2. The offering of another's original ideas or concepts as one's own, in an academic paper or assessed exercise;
 3. The inclusion of another's material in one's own work without appropriate or accurate citation or credit;
 4. Offering as one's own materials or data from the Internet or similar computer databases.
- C. *Cheating* is (a) the intentional use or attempted use of unauthorized materials, information, or study aids in any academic exercise; and/or (b) intentional actions taken to gain unfair or undue advantage over others. Examples of cheating include (but are not limited to):
1. Receiving or providing unauthorized assistance on any work required to be submitted for any course.
 2. Using unauthorized materials or assistance during an examination, including looking at another's paper.
 3. Alteration or insertion of any academic grade or evaluation so as to obtain unearned academic credit.
 4. Taking, or attempting to take, an examination for another student. This act constitutes a violation for both the student enrolled in the course and for the proxy or substitute.
 5. Tampering with another student's work or impairing the professor's ability to assess the academic performance of another student.
 6. Using false excuses to obtain extensions of time or other considerations which would or may yield an unfair advantage over other students.
 7. Impeding the ability of students to have fair access to materials assigned or suggested by the professor (e.g., removal or destruction of library or other source materials).
- D. *Fabrication* is the intentional and unauthorized falsification or invention of any information or citation in an academic exercise. Examples of fabrication include (but are not limited to):
1. The offering of contrived or fraudulently created information as the result of systematic research that was never conducted.
 2. The deliberate alteration of legitimate research data to obtain a desired result.
 3. The alteration or distortion of laboratory experiments to reach a desired result.
 4. The deliberate distortion of another's work or results in order to rebut or undermine the original author's work or concept.
- E. *Facilitating Academic Dishonesty* is the intentional help, or attempt to help, another student to violate any provision of this Code. Examples of facilitating academic dishonesty include (but are not limited to):
1. Instigating, encouraging, or abetting plagiarism, cheating, or fabrication in others.
 2. Giving perjured testimony before the Student Court.
 3. Intimidating or attempting to intimidate witnesses appearing before the Student Court.
 4. Failing to report a suspected violation of the Honor Code.
 5. Deliberately misleading or deceiving University administrators conducting an investigation of a violation.

III. Reporting Procedures for Honor Offenses

Academic dishonesty is contrary to the purposes of the University, unfair to other students, and demeaning to those who engage in it. It will not be tolerated at Armstrong Atlantic State University. A suspected honor violation may be reported in one of two ways:

- A. Self-reporting. Students who have committed an honor violation should report themselves to a University official in the Division of Student Affairs or to a faculty member.
- B. Reporting by others.
 1. Anyone (faculty member or student) who is aware of an honor violation may tell persons believed to have committed the offense to report themselves to a University official in the Division of Student Affairs or to a faculty member no later than the end of the next class day. After this period, the person who is aware of the violation must inform either a University official in the Division of Student Affairs or a faculty member.

2. Anyone (faculty member or student) who is aware of an honor violation may report the offense directly to a University official in the Division of Student Affairs without informing the accused.
3. When the Division of Student Affairs receives a report of a possible honor offense in some manner other than in person (e.g., in writing or voice mail), the Division of Student Affairs shall expeditiously advise the person reporting the alleged violation that the Division of Student Affairs has received the report.
4. Anyone wishing to report a suspected violation may come to the Division of Student Affairs or to the Office of the Vice-President for Academic Affairs for assistance.

IV. Adjudication Procedures for Honor Offenses

If the severity of the offense, in the studied opinion of the faculty member, is of a magnitude to warrant suspension or expulsion from the University, formal adjudication procedures involving a hearing before the Student Court are required. Lesser offenses may be handled through an informal process in which the faculty member and the student jointly agree to resolve the issue. Student grades for an individual assignment and/or for the overall course will be held in abeyance until any appeals are concluded and the final decision on the case is rendered by the appropriate University official.

Where sufficient evidence exists that a violation of a municipal, state, or federal law has occurred, the Vice-President for Student Affairs shall refer the case and transmit the evidence to the appropriate law enforcement agency. The student may also be charged with the violation of the Code of Conduct if the interest of the University has been compromised by a student's conduct.

A. Informal adjudication procedures.

1. When a student becomes aware of another student's possible academic misconduct and chooses to report it to the professor, *or* when the professor suspects academic misconduct, the professor should inform the student(s) involved and undertake an investigation of the matter. If the professor is then convinced that a minor violation did occur, the professor and the accused have the option of attempting to resolve the issue informally and in a non-adversarial manner. If both agree, the following procedures may be utilized.
2. For an informal and non-adversarial adjudication the following criteria pertain:
 - a. The offense must not rise to the level of a major violation in which expulsion or suspension is a potential penalty.
 - b. The faculty member will provide the student with written notice of a scheduled meeting at least three calendar days (excluding weekends) prior to the meeting. The purpose of the meeting will be to review and discuss the charges before a final decision is reached.
 - c. A neutral observer may be present at the request of the faculty member to facilitate the process so that relevant information from each party may be heard and evaluated.
 - d. Documentary evidence and written statements may be relied upon by the faculty member, as long as the student is allowed to respond to them at the meeting. Students may also be allowed to bring relevant witnesses.
 - e. If the accused admits to the violation, the professor and the student may then resolve the problem in a manner acceptable to both. If the accused denies the violation, or does not accept the sanction(s) determined by the professor, then the case must be referred to the Division of Student Affairs within twenty-four hours.
 - f. Should the faculty member conclude that there was no violation of the Honor Code, the case is closed.
 - g. Upon conclusion of the process, the faculty member and student must both sign and date the appropriate University form, detailing the specific offense(s) and the penalty assessed. Each party will retain a copy and the original shall be deposited with the Vice-President for Student Affairs to assure that repeat offenders are penalized accordingly.
 - h. The student and the professor shall both be permitted a grace period of seventy-two hours in which to consider the process and penalty. Within that period, either may revoke the decision to accept the informal process and/or the penalty.

- i. Should either party exercise the right of revocation, the case will then automatically be transferred to the Vice-President for Student Affairs for formal proceedings.
 - j. If the alleged violation occurs during final examinations, a grade of Incomplete shall be issued until the matter is resolved.
 - 3. It is strongly recommended that the faculty member advise and consult with the department head (or College dean, if appropriate) throughout the process.
- B. Formal adjudication procedures for honor offenses.
- 1. If the accused opts for a hearing before the Student Court, or if the involved faculty member deems that the alleged offense is of sufficient severity to merit a major sanction, the following procedures pertain:
 - a. The Vice-President for Student Affairs shall conduct an investigation into the alleged offense solely to determine whether there exists a sufficiency of cause or evidence to merit a continuation of the proceedings. In this investigative stage, the Vice-President for Student Affairs shall follow the standing policies established within the Division of Student Affairs for this purpose.
 - b. If the Vice-President for Student Affairs determines that the evidence available is insufficient, or is likely to be insufficient, to enable the Student Court to reach a reasonable conclusion as to guilt or innocence, the Vice-President for Student Affairs may, in accordance with established policies, recommend against further proceedings.
 - c. The above notwithstanding, the faculty member in whose class the alleged offense occurred shall have the right to have the case referred to the Student Court regardless of the investigatory conclusions of the Vice-President for Student Affairs.
 - d. If the alleged violation occurs sufficiently late in the term to preclude resolution of the issue prior to the end of the term, a grade of Incomplete shall be issued until the matter is resolved.
 - 2. If the investigation by the Vice-President for Student Affairs determines there is sufficient cause or evidence to enable the Student Court to reach a reasonable conclusion as to the guilt or innocence of the accused, the case shall be forwarded to the Student Court.
 - a. The accused will be notified in writing by the Student Court or its designated representative of the nature and details of the alleged offense, along with the names of accusers and principal witnesses to be brought against them. This notification shall occur no fewer than five calendar days prior to the date of the Student Court hearing.
 - b. The Court shall be convened by its presiding officer to consider the evidence of the violation as soon as possible after the violation is reported, but no sooner than five calendar class days after notification of the accused.
 - c. A written copy of the Court's decision shall be given to the student concerned and to the Vice-President for Academic Affairs as a recommendation for administrative action.
 - d. The Court shall recommend any authorized sanction or combination of sanctions that it deems to be warranted by the circumstances of the case.
- C. Procedural Rights of Students Before the Student Court.
- 1. Any student whose case is referred to the Student Court shall be notified of such referral in writing by the Vice-President for Student Affairs at least five calendar class days before the hearing and shall be apprised in the notice of the charges along with the names of the accusers and the principal witnesses.
 - 2. The accused has the right to choose an advisor. This advisor will not participate directly in the proceedings except to advise the client. It is customary, but not required, that the advisor will be drawn from the University community.
 - 3. The accused and the person bringing the charges shall be afforded an opportunity to present witnesses and documentary or other evidence. The accused and any individual bringing the charges shall have the right to examine all witnesses and may, where the witnesses cannot appear because of illness or other cause acceptable to the Court, present the sworn statement of the witnesses. The Court shall not be bound by formal rules governing the presentation of evidence, and it may consider any evidence presented which is of probative value in the case.

4. The accused may not be made to bear witness against themselves. The Court may not take the refusal of the accused to testify as evidence of guilt, but this proviso does not give the accused immunity from a hearing or from recommendations reached in a hearing simply because the accused does not testify.
 5. The accused shall have access to a tape of the hearing upon request of the student.
 6. The substantive facts of a case may be re-opened for consideration by the Student Court upon initiation of the accused. The accused shall not be put in double jeopardy.
 7. All witnesses will be sequestered from the hearing room during the course of a hearing.
 8. Witnesses may not discuss a pending case.
 9. The Student Court may, at its discretion, exclude members of the media from proceedings occurring in the academic arena, as permitted by the laws of the State of Georgia.
- E. Major Sanctions.
1. Expulsion: The permanent severance of the student's relationship with the University.
 2. Suspension: The temporary abrogation of a student's relationship with the University.
 3. Major sanctions ordinarily shall be imposed only upon the recommendation of the Student Court. In extraordinary circumstances, where gross violations of conduct rules disrupt the proper functioning of the University, students may be summarily suspended by the Vice-President for Student Affairs, the Vice-President for Academic Affairs, or the President of the University.
- F. Minor Sanctions:
1. Restrictions: exclusion from such specified student privileges as may be consistent with the offense committed.
 2. Written reprimand: a written statement of disapproval to the student which will be retained in the student's file as long as he remains at Armstrong Atlantic State University.
 3. Disciplinary Probation: Notice to the student that any further violation may result in suspension or expulsion. Disciplinary probation may include restrictions, reprimands, or other appropriate sanctions.
 4. Assignment of a grade of "0" for either the course assignment at issue or for the overall course grade (i.e., complete loss of credit for the course).

V. Conduct Offenses

Personal misconduct which brings discredit upon the student or the University are violations of the Code of Conduct and will not be tolerated.

- A. Personal misconduct includes (but is not limited to) the following:
1. Disorderly or obscene conduct or breach of the peace on University property or at any functions sponsored or supervised by the University or any recognized University organization.
 2. Physically assaulting, or threatening physical assault against, any member of the faculty, administration, staff, or student body, or any visitor to the campus.
 3. Sexual assault (i.e., intentionally making physical contact with the intimate parts of the body of another for sexual gratification without the consent of that person).
 4. Sexual harassment (i.e., unwelcome sexual advances or conduct, creation of a hostile environment as perceived by the complainant, or the demand for sexual favors in return for some benefit).
 5. Any disruption of a positive learning environment in the classroom or actions which impede the ability of other students in the classroom to learn or the ability of the professor to teach (e.g., blatantly inappropriate personal behavior, cellular phones, pagers).
 6. Personal conduct on University property, or at functions sponsored or supervised by the University or any recognized University organization, which materially interferes with the normal operation of the University or the requirements of appropriate discipline.
 7. Any act of intimidation or harassment, physical force or violence, or threat of physical force or violence that is directed against any person or group of persons including, but not limited to, acts motivated by ethnicity, race, national origin, religion, gender, sexual orientation, disability, or political beliefs.

8. Theft or abuse of computer facilities or computer time, including but not limited to:
 - a. unauthorized entry into, or manipulation or transfer of, a file;
 - b. unauthorized use of another individual's identification or password;
 - c. use of computing facilities to interfere with the work of another student, faculty member or University official;
 - d. use of computing facilities to interfere with a University computing system.
9. No student shall use the University computing facilities to violate Federal, State or local laws or University policy. For purposes of this provision, "computing facilities" includes computers and data and/or voice communications networks.
10. Interfering with, or giving false name to, or failing to cooperate with any properly identified University employees while these persons are in the performance of their duties.
11. Lewd, indecent, obscene conduct or expression.
12. Conduct that is a crime under the criminal laws of Georgia, or of the United States, which takes place on University property or at a University activity.
13. Entering, or attempting to enter, any event which is sponsored or supervised by the University or any recognized University organization, whether on- or off-campus, without credentials for admission (e.g. ticket, identification card, invitation, etc.) or other reasonable criteria established for attendance. At these University functions a student must present proper credentials to properly identified University faculty or staff upon request.
14. The malicious or unauthorized intentional damage or destruction of property belonging to a member of the University community, or to a visitor of the campus.
- B. Campus Disruption. Students and faculty have the right to a campus atmosphere which is free of violence, disruption, or distraction. The instigation or incitement of, or the participation in, any act which endangers, disrupts, or otherwise disturbs the rights of students or faculty, is a violation of the Code of Conduct.
 1. No student shall assemble on campus for the purpose of creating a riot, destruction, or disorderly diversion which interferes with the normal operation of the University. This shall not be construed so as to deny any student the right of peaceful, non-disruptive assembly.
 2. No student or group of students shall obstruct the free movement of other persons about the campus or interfere with the normal operation of the University, including teaching, research, administration, disciplinary procedures, or other University activities.
 3. The abuse or unauthorized use of sound amplification equipment indoors or outdoors during classroom hours is prohibited. (Use of sound amplification equipment must have prior approval by the Division of Student Affairs.)
- C. Miscellaneous Violations of the Code of Conduct: The following rules and regulations are intended to provide a safe, secure, and productive environment for the enjoyment and appreciation of the University community.
 1. Falsification of Records and Contracts:
 - a. No student shall alter, falsify, counterfeit, forge, or cause to be altered, falsified, counterfeited, or forged any records, forms or documents used by the University.
 - b. Violation of contractual agreements between a student and the University, including but not limited to, written financial aid agreements will be subject to discipline under this Code.
 2. Explosives:
 - a. No student shall possess, furnish, sell, or use explosives of any kind on University property or at functions sponsored by the University or any recognized University organization.
 - b. No student shall make, or cause another individual to make, false bomb threats.
 3. Fire Safety:
 - a. No student shall tamper with fire safety equipment.
 - b. The unauthorized possession, sale, furnishing, or use of an incendiary device is prohibited.
 - c. No student shall set, or cause to be set, any unauthorized fire in or on University property.
 - d. No student shall make, or cause to be made, a false fire alarm.

- e. The possession or use of fireworks on University property or at events sponsored by the University or any recognized University organization is prohibited. Fireworks are defined as any substance prepared for the purpose of producing a visible or audible effect of combustion, explosion, or detonation.
4. Weapons: Students are prohibited from possession of firearms on University property or at events sponsored or supervised by the University or any recognized University organization. The possession or use of any other offensive weapon is prohibited. (Exceptions may be made for official use authorized by the University or as authorized by special procedures approved by the Criminal Justice Training Center for its students who are sworn peace officers.)
5. Hazing: All rites and ceremonies of induction, initiation, continued membership, or orientation into University life or into the life of any University group that tend to promote or inflict physical or mental suffering, or include the destruction of public or private property, are prohibited.
6. Joint Responsibility for Infractions: Students who knowingly act in concert to violate University regulations have individual and joint responsibility for such violations.
7. Student Identification Cards:
 - a. Lending, selling, or otherwise transferring a student identification card is prohibited.
 - b. The use of a student identification card by anyone other than its original holder is prohibited.
8. Theft: No student shall take, attempt to take, or keep in his possession items belonging to students, faculty, staff, student groups, or visitors to the campus without proper authorization.
9. Drugs: The possession or use (without valid medical or dental prescription), manufacture, furnishing, or sale of substances controlled by Federal or Georgia law is prohibited.
10. Neither alcoholic beverages nor their consumption are permitted in any University facilities, buildings, or property except as provided for in the standing University policy on alcohol. This exemption notwithstanding, under no circumstances is anyone under the age of 21 permitted to consume alcoholic beverages in any University facilities, buildings, or property.
11. Gambling: The playing of cards or any other game of chance or skill for money or other items of value is prohibited.
12. Tobacco: Use of all tobacco products is prohibited in all University buildings.
13. Unauthorized Entry or Use of University Facilities:
 - a. No student shall make unauthorized entry into any University building, office or other facilities, nor shall any person remain without authorization in any building after normal closing hours.
 - b. No student shall make unauthorized use of any University facility.
- D. Repeated Violations: Repeated violations of published rules or regulations of the University, which cumulatively indicate an unwillingness or inability to conform to the Code of Conduct, will result in sanctions of escalating severity.
- E. Violation of Outside Law: Violation of local, state or federal law, on or off the campus, constitutes a violation of the Code of Conduct and may result in administrative University sanctions in addition to those of the appropriate law enforcement department.
- F. Additional Violations: Under this Code of Conduct, sanctions may be imposed for the violation of any University rule subsequently promulgated by the University.
- G. Group Offenses:
 1. Offenses by recognized groups fall under the jurisdiction of the Student Activities Committee and shall be referred to that committee for action.
 2. Actions of individual members of a group which constitute a conduct offense shall be dealt with under the provision of the Student Code of Conduct.

VI. Reporting Procedures for Conduct Offenses

It is imperative that all conduct violations be adjudicated promptly and fairly. Therefore, all conduct violations will be immediately reported to a University official in the Division of Student Affairs by any person who has knowledge of the commission of any such violation.

VII. Adjudication Procedures for Conduct Offenses

Where sufficient evidence exists that a violation of a municipal, state, or federal law may have occurred, the Vice-President for Student Affairs shall refer the case and transmit the evidence to the appropriate law enforcement agency. The student may also be charged with the violation of the Code of Conduct if the interest of the University has been abused by a student's conduct.

A. Formal adjudication procedures for conduct offenses. (NB: there are no informal adjudication procedures for conduct offenses; all such violation must utilize the following steps.)

1. The Vice-President for Student Affairs shall insure that the best interests of any accused student are served, regardless of whether disciplinary action is taken, by making sure that the student is advised of his rights.
2. Where the evidence establishes that a conduct offense may have occurred, the Vice-President for Student Affairs shall advise the accused of the charges being considered. The student then has the right to have the offense handled administratively by the Vice-President for Student Affairs or to have the case referred to the Student Court.
 - a. If the student prefers that the case not be referred to the Student Court, the student shall be required to sign a document waiving the right to such a hearing.
 - b. The case will then be adjudicated by a University official in the Division for Student Affairs.
3. If the accused opts for a hearing before the Student Court, the accused will be notified in writing by the Student Court or its designated representative of the nature and details of the alleged offense, along with the names of accusers and principal witnesses to be brought against them. This notification shall occur no fewer than five calendar days prior to the date of the hearing.
4. If the student chooses to have the case heard by the Student Court, the Court shall be convened by its presiding officer to consider the evidence of the violation as soon as possible after the violation is reported, but no sooner than five calendar class days after notification of the accused.
5. A written copy of the Court's decision shall be given to the student concerned and to the Vice-President for Student Affairs as a recommendation for administrative action.
6. The Court shall recommend any authorized sanction or combination of sanctions that it deems to be warranted by the circumstances of the case.

B. Procedural Rights of Students.

1. Any student whose case is referred to the Student Court shall be notified of such referral in writing by the Vice-President for Student Affairs at least three class days before the hearing and shall be apprised in the notice of the charges along with the names of the accusers and the principal witnesses.
2. The accused has the right to choose an advisor. This advisor will not participate directly in the proceedings except to advise the client. It is customary, but not required, that the advisor will be drawn from the University community.
3. The accused and the person bringing the charges shall be afforded an opportunity to present witnesses and documentary or other evidence. The accused and any individual bringing the charges shall have the right to cross examine all witnesses and may, where the witnesses cannot appear because of illness or other cause acceptable to the Court, present the sworn statement of the witnesses. The Court shall not be bound by formal rules governing the presentation of evidence, and it may consider any evidence presented which is of probative value in the case.
4. The accused may not be made to bear witness against themselves. The Court may not take the refusal of the accused to testify as evidence of guilt, but this proviso does not give the

accused immunity from a hearing or from recommendations reached in a hearing simply because the accused does not testify.

5. The accused shall have access to a tape of the hearing, upon request of the student.
 6. The substantive facts of a case may be re-opened for consideration by the Student Court upon initiation of the accused.
 7. All witnesses will be sequestered from the hearing room during the course of a hearing.
 8. Witnesses may not discuss a pending case.
 9. By prior agreement, the accused will be allowed such observers of the hearing as may be commensurate with the space available. Otherwise, to protect the privacy rights of the accused, hearings will be closed, except that the University may also have observers in addition to the advisors to the Student Court.
- C. Major Sanctions.
1. Expulsion: The permanent severance of the student's relationship with the University.
 2. Suspension: The temporary abrogation of a student's relationship with the University.
 3. Major sanctions ordinarily shall be imposed only upon the recommendation of the Student Court. In extraordinary circumstances, where gross violations of conduct rules disrupt the proper functioning of the University, students may be summarily suspended by the Vice-President for Student Affairs, the Vice-President for Academic Affairs, or the President of the University.
- D. Minor Sanctions:
1. Restrictions: exclusion from such specified student privileges as may be consistent with the offense committed.
 2. Written reprimand: a written statement of disapproval to the student which will be retained in the student's file as long as he remains at Armstrong Atlantic State University.
 3. Restitution: Reimbursement for damage to or misappropriation of property. This may be in the form of appropriate service or other compensations and may be imposed in addition to other sanctions.
 4. Disciplinary Probation: Notice to the student that any further violation may result in suspension or expulsion. Disciplinary probation may include one or more of the following: restrictions, reprimand, and/or restitution.

VIII. The Student Conduct Committee, the Student Court, and Advisors to the Student Court

A. Student Conduct Committee:

1. The Student Conduct Committee shall be responsible to the faculty for recommending policies relating to the Academic Honor Code and the Code of Conduct, for formulating or approving rules, enforcement procedures, and sanctions within the framework of existing policies, and for recommending changes in the administration of any aspects of the Honor Code and the Student Code of Conduct. The Conduct Committee will also interview and select members for the Student Court.
2. The Committee shall consist of five faculty members, the Vice-President for Student Affairs and four students. The four students will be the President and Vice-President of the Student Court, the President of the Student Government Association, and one student-at-large. The faculty members will be appointed by the faculty in accordance with the faculty statutes.
3. The Vice-President for Student Affairs shall assist the Conduct Committee in the development of policy and in the discharge of its responsibilities. He shall coordinate the activities of all officials, committees, student groups, and tribunals for student conduct.
4. All regulations or rules relating to student conduct that are proposed by any University official, committee or student group, and for which sanctions may be imposed in the name of the University, must be submitted to the Committee for consideration and review prior to submission to the faculty and the student body. The Committee shall have ten days in which to review the same.

B. Student Court:

1. The Student Court will be selected by the Student Court Selection Committee and will be composed of no less than twelve students. Due consideration will be given to equitable apportionment of such members on the basis of academic class, race, and sex. Students on academic probation may not serve. All appointments will be issued and accepted in writing. Appointments will be made as needed to keep the Student Court staffed to do business in a prompt manner. These appointments may constitute permanent or temporary replacements as the Student Conduct Committee deems necessary.
2. The Student Court will elect a President, Vice-President, and a Secretary from its membership. The President will preside at all meetings. The Vice-President will assume the duties of the President if the President is absent. A quorum of the Court shall consist of seven members. A two-thirds majority secret ballot vote is required to reach a finding of guilty. Sanctions and other issues may be decided by simple majority vote.
3. Student Court Members shall examine their consciences carefully to determine whether they can, in good conscience, serve on a panel hearing a particular case. In the event that there is any doubt whatsoever, such members shall excuse themselves from duty on the panel in question.

C. Advisors to the Court:

1. An advisor and an associate advisor to the Student Court shall be appointed by the President of the University.
2. Ordinarily the advisor will serve in that office for one year only and usually will be succeeded in the position by the associate advisor. Therefore, after the initial appointments, the associate advisor will be appointed each year. The succession of an associate to the advisor position should occur on the last day of Spring Semester. If, for any reason, the advisor is unable to complete his/her term, the associate advisor shall succeed to the office of advisor and another associate advisor shall be appointed by the above procedures. If neither advisor is on campus, a temporary advisor will be appointed.
3. It shall be the duty of the advisor to consult with the Court and to offer advice to the President and the members of the Court on substantive and procedural questions. The advisor, or the associate advisor in the event the advisor is unable to attend, shall be present at all meetings and hearings of the Court. The advisor may not vote or participate directly in the conduct of hearings before the Court except through the chair, or acting chair of the Court. The advisor should be governed at all times by the principle that a hearing before the Student Court is primarily the responsibility of the students.

IX. Appeals Procedures

- A. Determination of guilt or imposition of punishment: The accused shall have no right of appeal, in any forum, from either the determination of guilt or the punishment imposed, if any.
- B. Procedural irregularities or flaws: The accused shall have the right of appeal only for possible procedural flaws or irregularities that are sufficient to deny, or give the appearance of denying, inherent fairness and justice to the accused.
- C. The student shall have five days from the receipt of notice of the final administrative action by the Vice-President for Student Affairs to appeal to the President of the University, provided that the basis for the appeal is limited to procedural irregularities or flaws..

X. Supervision of the Student Court

- A. As an institutional means of responding to reported infractions of the Honor Code and the Code of Conduct, the Student Court is ultimately responsible to the President of the University.
- B. The Vice-President for Student Affairs and the Advisors will, in accordance with Article V, Section B.5 of the Statutes in the University Faculty Handbook, provide general supervision of the Student Court and will provide other guidance or services as directed by the President of the University.

- C. Taped records of all testimony, and exhibits of evidence which by their nature may reasonably be maintained, shall be held in the Division of Student Affairs

XI. Revision of the Codes

- A. Revision or amendment of misconduct offenses by the Student Conduct Committee will require confirmation by majority vote of those faculty and student members voting and will require that two-thirds of the Committee be present.
- B. All amendments establishing additional rules of conduct and/or imposing sanctions shall be placed in writing and issued at least once in an official publication. The University's failure to comply with these requirements shall be a complete defense to any charge of violation of a rule of which the student has no actual knowledge. A student's failure to familiarize himself with these additional rules shall not be adequate defense. Any such additional rules shall be posted on the bulletin board in the Memorial College Center for a period of ten days before the effective date thereof.

Appendix II

Armstrong Atlantic State University Equal Opportunity and Harassment Policy

Equal Opportunity

It is the policy of Armstrong Atlantic State University to provide equal opportunity for all students, employees, and applicants for employment, regardless of race, religion, national origin, age, sex, sexual orientation or disability. Therefore, it is the policy of this university that all faculty, staff and students have the opportunity to study, work and participate in any program or activity sponsored by Armstrong Atlantic State University, in an atmosphere and environment free from any form of harassment or retaliation.

Definition of Harassment

Harassment is defined as verbal or physical conduct that denigrates or shows hostility or aversion toward an individual because of race, color, religion, gender, sexual orientation, national origin, age or disability or that of their relatives, friends or associates, and that:

- Has the purpose or effect of creating an intimidating, hostile or offensive work or study environment; or
- Has the purpose or effect of unreasonably interfering with an individual's work or study performance; or
- Otherwise adversely affects an individual's employment or study opportunities.

Examples of harassing conduct include, but are not limited to the following:

- Epithets, slurs, negative stereotyping, or threatening, intimidating or hostile acts that relate to race, color, religion, gender, sexual orientation, national origin, age or disability;
- Written or graphic material that does not serve an academic purpose that denigrates or shows hostility or aversion toward an individual or group because of race, color, religion, gender, sexual orientation, national origin, age or disability and that is placed on walls, bulletin boards or elsewhere on university premises or circulated in the workplace or the classroom.

Definition of Sexual Harassment

Pursuant to Title VII of the Civil Rights Act of 1964 and Title IX of the Educational Amendments of 1972, "sexual harassment" is defined as unwelcome sexual advances, requests for sexual favors, and other verbal and physical conduct of a sexual nature when:

- submission to such conduct is made either implicitly or explicitly a term or condition of an individual's employment or status in a course, program or activity; submission or rejection of such conduct by an individual is used as the basis for employment or educational decisions affecting such individual;
- such conduct has the purpose or effect of interfering with the individual's work or educational performance; of creating an intimidating, hostile, or offensive working and/or learning environment; or of interfering with one's ability to participate in or benefit from an educational program or activity.

Examples of sexual harassment may include, but are not limited to the following:

- Physical assault which may carry criminal penalties as well.
- Direct or implied threats that submission to sexual advances will be a condition of employment, work status, compensation, promotion, grades, or letters of recommendation.
- Sexual advances, physical or implied, or direct propositions of a sexual nature. This activity may include inappropriate/unnecessary touching or rubbing against another, sexually suggestive or degrading jokes or comments, remarks of a sexual nature about one's clothing and/or body,

- preferential treatment in exchange for sexual activity, and the inappropriate display of sexually explicit pictures, text, printed materials, or objects that do not serve an academic purpose.
- A pattern of conduct, which can be subtle in nature, that has sexual overtones and is intended to create or has the effect of creating discomfort and/or humiliating another.
 - Remarks speculating about a person's sexual activities or sexual history, or remarks about one's own sexual activities or sexual history that do not serve a medical, employment or academic purpose.

Armstrong Atlantic State University (“the University”) is committed to maintaining a fair and respectful environment for living, work and study. To that end, and in accordance with federal and state law and Board of Regents' policy, the University prohibits any member of the faculty, staff, student body, or visitors to campus, whether they be guests, patrons, independent contractors, or clients, from harassing any other member of the University community. Any form of harassment will be met with appropriate disciplinary action, up to and including dismissal from the University.

Definition of Retaliation

Retaliation is any adverse action taken against an individual(s) for filing an action of discrimination, participating in an investigation, or opposing discriminatory practices. Retaliation is prohibited. Retaliatory action is illegal. Actions taken in retaliation for the filing, in good faith, of complaints of harassment are prohibited regardless of whether the claim of harassment is determined to be valid or unfounded. Reprisal in any form should be reported to a supervisor or university administrator. Retaliatory behavior will not be tolerated and is subject to disciplinary action by the university that can result in sanctions up to and including termination of employment.

Examples of retaliatory actions include, but are not limited to:

- assigning inappropriately low grades.
- giving deflated performance evaluations.
- employment termination.
- punitive scheduling.
- withholding of deserved support for promotion and tenure.
- assigning inadequate and undesirable space.
- undeserved demotion.
- punitive work assignments.

Amorous or Sexual Relationships

Armstrong Atlantic State University's educational mission is promoted by professionalism which is fostered by an atmosphere of mutual trust and respect. Trust and respect are diminished when those in positions of authority abuse that authority or place themselves in a situation of perceived or actual conflict of interest. A conflict of interest is created when an individual evaluates or supervises another individual with whom he or she has an amorous or sexual relationship. Such relationships, even when consensual, may be exploitative, and they imperil the integrity of the work or educational environment. They also may lead to charges of sexual harassment. Thus, the University discourages amorous or sexual relationships between supervisors/subordinates and between faculty/students.

Whenever a conflict of interest situation arises or is foreseen, the employee in a position of authority must resolve any potential conflict of interest by taking necessary steps which may include removing himself or herself from evaluative decisions concerning the other individual. If he or she is unable to personally resolve the conflict of interest, he or she is required to inform the immediate supervisor promptly and seek advice and counsel in dealing with the conflict. The employee, along with the supervisor, is responsible for taking steps to ensure unbiased supervision or evaluation of the employee or student. Failure to resolve potential or actual conflict of interest situations as described in this policy may result in disciplinary action.

Faculty may have a significant role in academic personnel matters affecting their colleagues and students. Faculty who engage in amorous or sexual relationships with other faculty or students may

place themselves in a conflict of interest situation. When this occurs, a faculty member must be sensitive to how the relationship may influence academic personnel decisions. Faculty must make every effort to resolve any situation involving a conflict of interest.

Student-to-Student Harassment

Any form of harassment between students, neither of whom is employed by the University, should be treated as a disciplinary matter and should be reported to the Office of Student Affairs.

Responsibility of Students and Employees

All students and employees should report any form of harassment that they experience, observe, hear about, or believe may be occurring. No student or employee should assume that an official of Armstrong Atlantic State University knows about a specific situation.

Academic Freedom

Academic freedom shall be considered in investigating and reviewing complaints and reports of harassment. However, raising issues of academic freedom will not excuse behavior that constitutes a violation of the law or the University's harassment policy.

Processing of Harassment Reports and Complaints Definitions

- **Harassment Prevention Officer**
The Harassment Prevention Officer is the individual or individuals designated by the President to be primarily responsible for investigating reports and complaints of harassment in accordance with the procedure. The Harassment Prevention Officer must be designated by name, telephone number, and location. The Harassment Prevention Officer is authorized to designate other individuals to assist with investigating harassment complaints and reports as deemed appropriate.
- **Decision-making Authority**
The Decision-making Authority is the individual designated to review investigative reports, to make findings whether the harassment policy has been violated based upon the investigation, and to determine the appropriate action for the University to take based upon the findings. The Decision-making Authority will be the Vice President and Dean of the Faculty or his /her designee. If the respondent in a harassment complaint or report is the Vice President and Dean of the Faculty, the Decision-making Authority will be the President. If the Respondent in a harassment complaint or report is the President, the Decision-making Authority will be the Chancellor.

Reports and Complaints

- All reports and complaints of any form of harassment will be promptly investigated and appropriate action will be taken as expeditiously as reasonably possible. Complaints and reports of harassment should be reported as soon as possible after the incident(s) in order to be most effectively investigated. The University will make reasonable efforts to protect the rights of both the complainant and the respondent. The University will respect the privacy of the complainant, the individual(s) against whom the complaint is filed, and the witnesses in a manner consistent with the University's legal obligations to investigate, to take appropriate action, and to comply with any discovery or disclosure obligations required by law.
- The University encourages any person who feels he or she has been harassed to report the incident to the Harassment Prevention Officer. Any student, faculty member, or employee who knows of, receives information about or receives a complaint of harassment should report the information or complaint to the Harassment Prevention Officer. Administrators and supervisors must report incidents of harassment which are reported to them to the Harassment Prevention Officer in a timely manner.

Investigation and Resolution

- The University's complaint process, outlined herein, is the procedure to be used to end inappropriate behavior, investigate for the purpose of fact finding, and facilitate resolution of complaints involving allegations of harassment. However, as part of the complaint process, the Harassment Prevention Officer may recommend that the complainant and respondent attempt to resolve their differences through mediation. The University reserves the right to investigate and resolve a complaint or report of harassment regardless of whether the complainant pursues the complaint. In such cases, the respondent shall be informed of the status of the investigation at reasonable times up until the University's final disposition of the complaint, ensuring that the respondent is able to respond to the substance of the complaint during meetings convened by the Decision-making Authority to consider discipline based upon the substance of the investigative report.
- These procedures do not replace the right of complainants or respondents to pursue other options or remedies available under the law.

Informal Process

The following procedures for informal resolution are optional. The Harassment Prevention Officer shall determine whether and/or how to proceed. The goal of informal resolution is to stop inappropriate behavior, investigate, and facilitate resolutions, if possible. If a complainant is able and feels safe, he or she should clearly explain to the alleged offender that the behavior is objectionable and request that it cease. The complainant should do so as soon as possible after the incident occurs.

The complainant may utilize the assistance of the Harassment Prevention Officer. Communication with the alleged offender may be in person, on the telephone, or in writing. If the behavior does not stop, or if the complainant believes some adverse employment or educational consequences may result from the discussion, he or she should go to the next higher level of supervision to document the complaint. The supervisor should report the complaint to the Harassment Prevention Officer. The Harassment Prevention Officer will work with the supervisor to facilitate a resolution of harassment complaints at the local level when deemed appropriate.

If an allegation of harassment is pursued through the University's informal procedure, the Harassment Prevention Officer must be contacted in order to initiate a complaint. The complaint should be brought as soon as possible after the most recent incident. The Harassment Prevention Officer will:

- determine whether the complaint is one which should be processed through another university dispute resolution procedure, such as mediation, available to the complainant; if appropriate, the Harassment Prevention Officer shall refer the complainant to that procedure(s) as soon as possible;
- inform the individual of the provisions of both the informal and formal discrimination/harassment complaint procedures and provide a copy of the complaint procedure;
- inform the person against whom the complaint is being brought of its existence;
- maintain appropriate documentation;
- disclose appropriate information to others only on a need-to-know basis consistent with state and federal law. An informal complaint may be investigated without identifying the complainant, if in the judgment of the Harassment Prevention Officer, this would increase the likelihood of satisfactory resolution of the complaint. While confidentiality cannot be guaranteed, care will be taken to keep investigation discussions sufficiently broad to protect the complainant's identity when requested. If the Harassment Prevention Officer finds there is evidence that the complained behavior occurred, he/she may use one or more of the following methods (which may also be part of the formal process) to stop the behavior:
- discussing the matter with the alleged offender, informing him or her of the policy and indicating that any inappropriate behavior must stop;
- suggesting counseling and/or sensitivity training;
- conducting training for the unit, division, or department, calling attention to the consequences of engaging in such behavior;

- requesting a letter of apology to the complainant;
- facilitating meetings between the parties; and separating the parties, etc.
- composing a written letter of agreement confirming that respondent has been informed of the policy, identifying and accepting the Harassment Prevention Officer's resolution of the complaint, and stating that retaliation is prohibited. During the informal process, the Harassment Prevention Officer may keep the supervisor/administrator informed of the status of the complaint and may seek input from the appropriate supervisor/administrator when implementing corrective action.

If the informal procedures do not resolve the complaint within a reasonable period of time to the satisfaction of the Harassment Prevention Officer or the Harassment Prevention Officer feels that additional steps should be taken, he/she should commence the formal procedures unless reasonable delays are deemed appropriate.

Formal Process

If a complaint is not resolved through the informal complaint procedures or if the Harassment Prevention Officer determines that the complaint should be pursued through formal complaint procedures, the formal procedures must be used. The Harassment Prevention Officer or his/her designee will:

- secure a formal complaint in writing. The complaint must include a detailed description of the allegations upon which the charge is based, a list of possible witnesses as deemed appropriate by the Harassment Prevention Officer, and the resolution sought.
- notify the respondent in writing of the nature of the allegations and include a copy of the harassment policy and process. The respondent may provide a written response to the allegations.
- conduct an investigation of the complaint, including appropriate interviews and meetings. The Harassment Prevention Officer may convene a committee to assist in conducting the investigation, as needed. Although attorneys are prohibited from participating in interviews and meetings between the Harassment Prevention Officer and the complainant or other witnesses, they may accompany and provide confidential advice to their client.
- prepare a report to the Decision-making Authority.
- the report may be provided to the complainant and/or respondent as deemed appropriate in keeping with state and federal law. After receiving the report of the Harassment Prevention Officer, the Decision-making Authority may, at his/her discretion, meet with either party; request additional information which may include written arguments from the complainant/respondent relating to the allegations of the complaint; or take other measures deemed necessary to reach a decision. The Decision-making Authority will report in writing to the parties and the Harassment Prevention Officer, his or her findings as to whether or not the harassment policy has been violated. The Decision-making Authority will take into account the surrounding circumstances; the nature of the behavior; the relationship(s) between the parties; the context in which the alleged incident(s) occurred; and other relevant facts upon which he/she relied in reaching a decision. If the Decision-making Authority makes the judgment that a violation of policy has occurred he or she will determine the nature and scope of sanctions and when/how to implement sanctions.

Investigative Data

During the investigation, the Harassment Prevention Officer will keep confidential to the extent permitted by state and federal law the information gathered during the investigation. The Harassment Prevention Officer shall exercise due care in sharing identifiable information about students, staff or faculty at all times.

Summary Action

The President or designee may impose a summary suspension prior to the resolution of informal or formal proceedings. However, a summary suspension may be imposed only when, in the judgment of the President, the accused individual's presence on campus would constitute a threat

to the safety and well-being of members of the campus community. Before implementing the summary suspension, the accused individual shall be given written notice of the intention to impose the summary suspension and shall be given an opportunity to present oral and written arguments against the imposition of the suspension. If the accused individual is summarily suspended, the formal process should be completed within the shortest reasonable time possible, not to exceed ten (10) working days. During the summary suspension, the accused individual may not enter the campus without obtaining prior permission from the Harassment Prevention Officer.

University Action

The University will take the appropriate remedial action based on results of the investigation and will follow up as appropriate to ensure that the remedial action is effective. Complainants are encouraged to report any reoccurrences of conduct which were found to violate the harassment policy.

The Decision-making Authority will notify the complainant and respondent, in writing, of the results of the formal investigation. Written notice to parties relating to discipline, resolutions, and/or final dispositions is deemed to be official correspondence from the University.

Right to Appeal

Pursuant to this policy, the complainant and the respondent shall have the right to appeal the decision of the Decision-making Authority to the President or his or her designee. In exercising the right of appeal to the President as provided by this procedure, a written appeal must be made within ten (10) working days after written notification of the decision which is being appealed. The President or his or her designee may receive additional information if he or she believes such information would aid in the decision. A decision will be made within a reasonable time and the Harassment Prevention Officer, the complainant, and the respondent will be notified of the decision. During the time of the appeal and review, disciplinary action taken as a result of the original complaint, may be implemented and enforced.

Education and Training

The University will provide a full range of education and training programs to promote awareness and prevention of harassment. Education and training programs also should include education about the University's harassment policy as well as training for responsible personnel in conducting investigations, management and implementation of the complaint procedure.

Dissemination of Policy and Procedure

Information regarding this policy will be provided during student orientation, during employee orientation, and to all individuals who volunteer in various positions on campus. Copies of the policy will be readily available in all departments and units of the University. In addition, the policy will be posted on the University's website.

Record Retention

During an investigation of a complaint, and, upon the completion of an investigation, the custodian of the file shall be the Harassment Prevention Officer. Future access to any file shall be provided in keeping with the Georgia Open Records Act and the Family Educational Rights and Privacy Act.

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